

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P458154

Luminaire Tested: **GALN-SA9C-740-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458154  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9C-740-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 64098 lumens  
Efficiency: N/A  
Efficacy: 133.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5

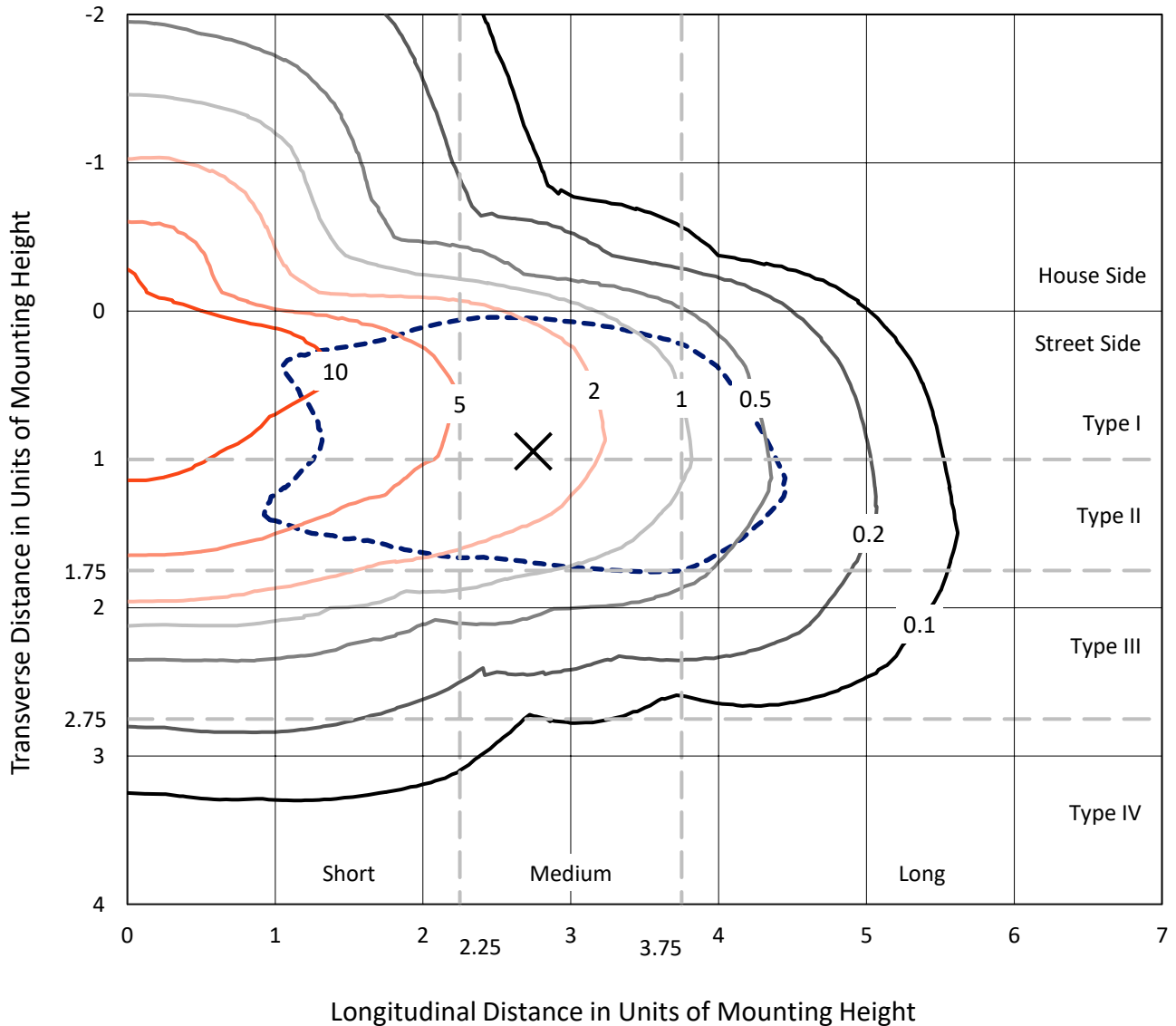
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

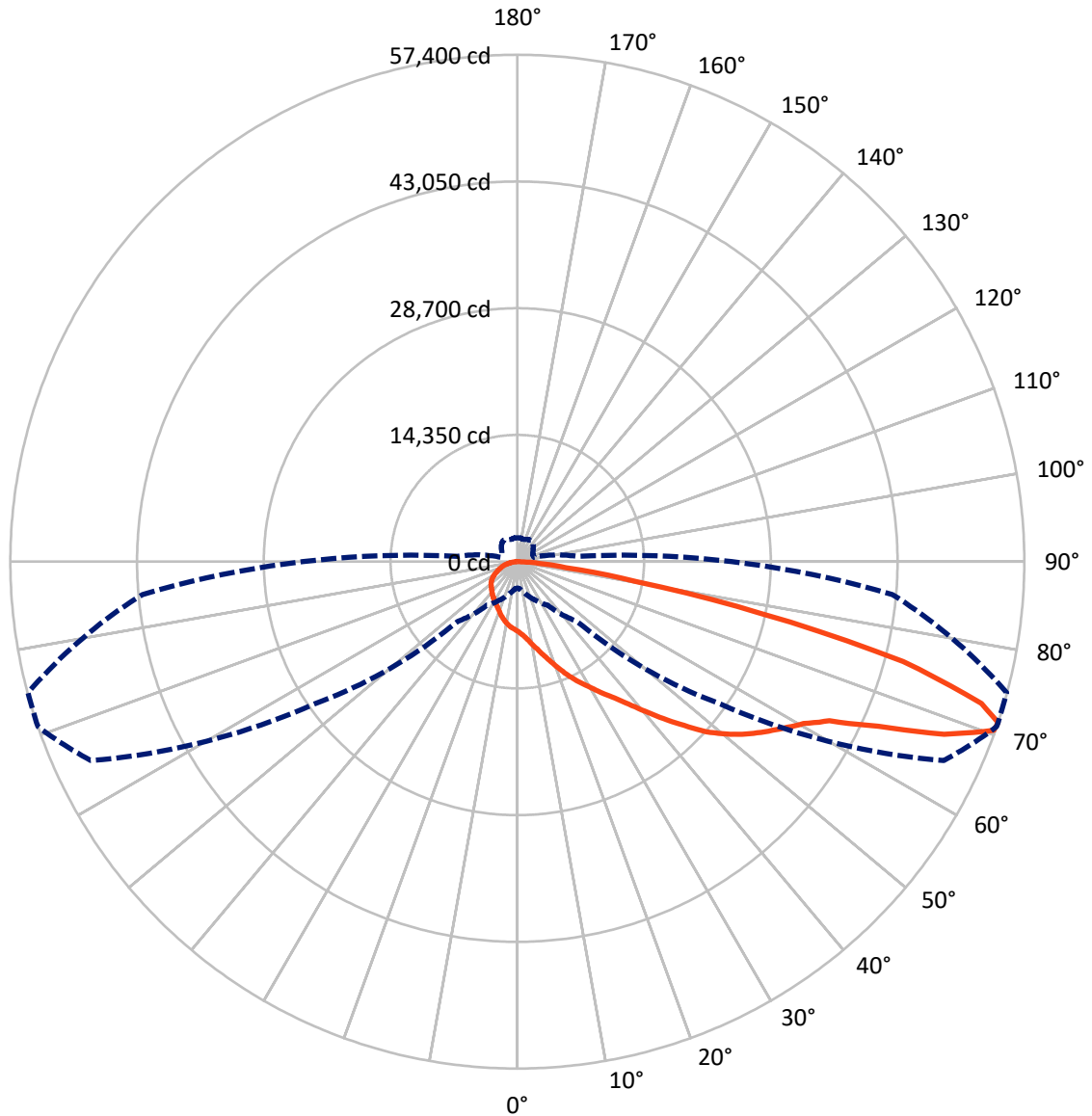
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.9 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11527.9	0.0	11527.9
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	52570.1	0.0	52570.1
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	64098.0	0.0	64098.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	789.9	1.2
10°-20°	2566.2	4.0
20°-30°	4484.7	7.0
30°-40°	6670.5	10.4
40°-50°	9828.1	15.3
50°-60°	13759.4	21.5
60°-70°	15389.5	24.0
70°-80°	9400.5	14.7
80°-90°	1209.3	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	64098.0	100.0
0°-180°	64098.0	100.0



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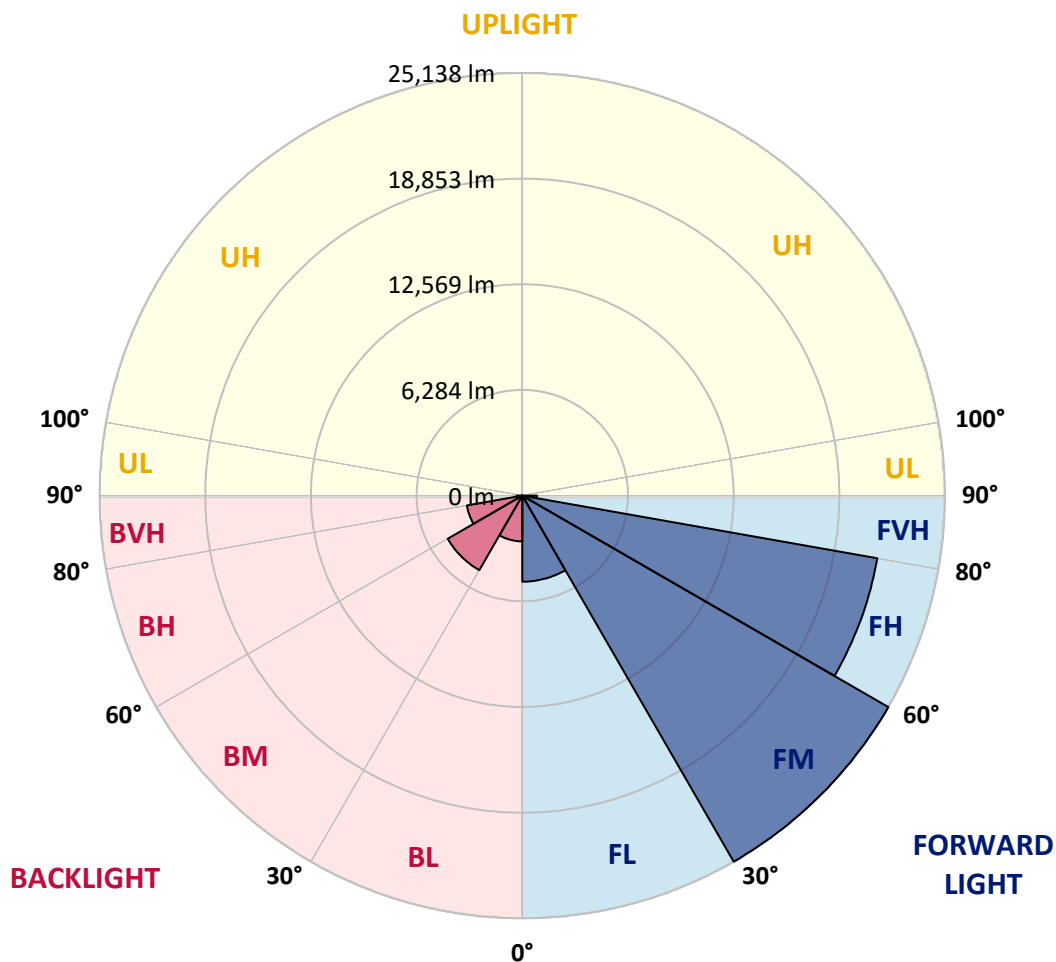
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5121.5	8.0			
FM	(30°-60°)	25138.0	39.2			
FH	(60°-80°)	21440.6	33.4			G5
FVH	(80°-90°)	870.1	1.4			G5
BL	(0°-30°)	2719.4	4.2	B4/5000		
BM	(30°-60°)	5120.0	8.0	B4/8500		
BH	(60°-80°)	3349.3	5.2	B4/5000		G4/5000
BVH	(80°-90°)	339.2	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	7866.8	7866.8	7866.8	7866.8	7866.8	7866.8	7866.8	7866.8	7866.8	7866.8	7866.8
2.5°	8733.4	8691.1	8694.7	8634.8	8557.3	8472.7	8352.9	8247.2	8162.7	8113.4	7968.9
5°	9677.6	9635.3	9582.4	9452.1	9395.7	9187.9	8923.7	8684.1	8500.9	8398.7	8109.8
7.5°	10442.0	10431.5	10417.4	10343.4	10199.0	9910.1	9684.6	9268.9	8997.6	8803.9	8310.7
10°	10914.1	10931.7	10942.3	10956.4	10896.5	10745.0	10435.0	9910.1	9564.8	9318.2	8571.4
12.5°	11153.7	11171.3	11231.2	11361.5	11442.6	11425.0	11171.3	10656.9	10181.3	9857.2	8849.7
15°	11301.6	11329.8	11435.5	11608.1	11879.4	12052.0	11928.7	11453.1	10931.7	10547.7	9180.8
17.5°	11463.7	11495.4	11611.7	11858.3	12214.1	12587.5	12721.4	12312.7	11745.5	11287.6	9550.7
20°	11555.3	11597.6	11763.2	12087.3	12503.0	13045.5	13489.4	13274.5	12654.5	12147.2	9977.0
22.5°	11703.3	11738.5	11879.4	12224.7	12721.4	13401.3	14257.4	14211.6	13665.6	13010.3	10445.6
25°	12104.9	12161.3	12231.7	12439.6	12918.7	13764.2	14895.1	15212.1	14644.9	13912.2	10875.4
27.5°	12862.3	12908.1	12904.6	12932.8	13204.0	14077.7	15448.2	16202.1	15617.3	14824.6	11291.1
30°	13725.4	13743.1	13757.2	13693.7	13753.6	14398.3	15955.5	17181.5	16596.7	15761.7	11653.9
32.5°	14775.3	14810.5	14690.7	14528.7	14479.4	14873.9	16374.7	18160.8	17755.7	16712.9	12013.3
35°	16015.4	16107.0	15863.9	15578.5	15377.7	15557.4	16938.4	19161.4	18942.9	17928.3	12488.9
37.5°	17431.6	17544.3	17318.9	16758.7	16473.4	16522.7	17674.7	20397.9	20443.7	19312.9	13197.0
40°	18590.6	18738.6	18745.7	17953.0	17519.7	17576.0	18608.3	21729.6	22254.5	21025.0	14031.9
42.5°	19355.1	19499.6	19651.1	19186.0	18731.6	19052.2	19696.9	23174.0	24290.8	23103.6	15198.0
45°	20193.6	20323.9	20408.5	20197.1	19943.5	20774.9	21010.9	24710.0	26460.9	25425.2	16473.4
47.5°	21165.9	21310.4	21391.4	21190.6	21095.5	22286.2	22427.2	26143.9	28779.0	27679.9	17882.5
50°	22462.4	22571.6	22529.3	22402.5	22381.4	23445.3	23787.0	27486.1	30692.0	30107.2	19344.6
52.5°	24075.9	24206.2	24252.0	24072.4	23991.3	24273.2	24882.7	28708.6	32432.4	32192.8	20905.2
55°	25051.8	25259.6	25957.2	26239.0	26432.8	25344.2	26062.8	30057.9	33993.0	34391.1	22582.2
57.5°	23801.1	24068.8	25629.5	27038.7	28860.1	28021.6	27736.2	31467.1	35553.7	36522.5	24590.2
60°	20750.2	20810.1	22821.7	25418.1	29082.0	31463.5	31227.5	33707.7	37244.7	38671.5	27236.0
62.5°	14394.8	14521.6	16899.6	21042.6	26341.2	32703.6	37167.2	37575.9	39668.5	41888.0	31114.8
65°	7422.9	7257.3	9423.9	13225.2	19858.9	29758.4	41979.6	44688.7	44924.8	46918.8	36575.3
67.5°	4569.3	4643.3	5657.9	7722.3	11742.0	21627.4	41475.8	53379.9	52136.3	53094.5	41644.9
70°	3431.4	3523.0	4220.5	5284.4	7158.7	12365.6	33355.4	55486.6	57223.4	56976.8	43187.9
71°	2983.9	3079.1	3804.8	4808.8	6013.7	9543.7	28102.6	53281.2	57399.6	57357.3	42606.7
72.5°	2543.6	2603.5	3170.7	4072.5	5069.5	6690.1	21113.1	47785.4	54951.1	56356.8	40531.6
75°	1997.5	2043.3	2297.0	3107.2	3991.5	4107.8	11329.8	35825.0	45132.6	47810.1	33742.9
77.5°	1627.6	1659.3	1789.7	2307.5	3079.1	2910.0	5943.2	23318.5	28275.3	30970.3	19876.5
80°	1292.9	1328.2	1405.7	1564.2	2307.5	2075.0	2836.0	11816.0	13658.5	13630.3	7933.7
82.5°	1004.0	1014.6	1106.2	1148.5	1578.3	1472.6	1536.0	5002.6	5541.6	5724.8	2864.2
85°	634.1	665.8	979.4	880.7	944.2	863.1	757.4	1986.9	2448.5	2413.2	1145.0
87.5°	193.8	204.3	331.2	373.4	419.2	377.0	278.3	584.8	715.2	775.1	285.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7866.8	7866.8	7866.8	7866.8	7866.8	7866.8	7866.8	7866.8	7866.8	7866.8	7866.8
2.5°	7912.6	7873.8	7736.4	7623.7	7518.0	7401.7	7303.1	7274.9	7250.2	7239.7	7236.2
5°	7986.5	7870.3	7599.0	7377.1	7200.9	7038.9	6936.7	6890.9	6845.1	6845.1	6859.2
7.5°	8092.2	7880.9	7461.6	7130.5	6908.5	6757.0	6683.1	6676.0	6686.6	6697.1	6700.7
10°	8208.5	7873.8	7260.8	6848.6	6651.3	6580.9	6584.4	6644.3	6700.7	6742.9	6750.0
12.5°	8321.2	7831.5	7024.8	6584.4	6457.6	6471.7	6570.3	6704.2	6813.4	6873.3	6876.8
15°	8448.1	7764.6	6739.4	6334.3	6292.0	6401.2	6584.4	6788.7	6954.3	7053.0	7063.5
17.5°	8553.7	7651.9	6440.0	6091.2	6144.0	6344.8	6598.5	6862.7	7063.5	7186.8	7208.0
20°	8673.5	7507.4	6129.9	5858.7	6010.2	6281.4	6570.3	6855.7	7063.5	7183.3	7211.5
22.5°	8768.6	7303.1	5834.0	5668.4	5890.4	6203.9	6475.2	6704.2	6873.3	6936.7	6979.0
25°	8807.4	7045.9	5555.7	5513.4	5795.3	6077.1	6260.3	6390.6	6443.5	6436.4	6454.1
27.5°	8786.3	6750.0	5316.1	5390.1	5675.5	5879.8	5971.4	5960.8	5865.7	5777.7	5819.9
30°	8698.2	6397.7	5115.3	5263.3	5520.5	5633.2	5619.1	5481.7	5302.1	5136.5	5147.0
32.5°	8539.7	6017.2	4928.6	5118.9	5302.1	5351.4	5256.3	5076.6	4819.4	4604.5	4572.8
35°	8405.8	5654.3	4763.0	4953.3	5083.6	5059.0	4967.4	4734.9	4502.3	4312.1	4280.4
37.5°	8384.6	5344.3	4604.5	4766.6	4840.5	4805.3	4692.6	4495.3	4410.7	4266.3	4248.7
40°	8497.4	5125.9	4442.5	4569.3	4604.5	4576.3	4453.0	4340.3	4417.8	4382.6	4382.6
42.5°	8803.9	5009.6	4298.0	4372.0	4400.2	4421.3	4333.2	4238.1	4333.2	4171.2	4118.3
45°	9290.0	5013.2	4167.7	4178.2	4262.8	4336.8	4276.9	4136.0	4086.6	3762.5	3699.1
47.5°	10005.2	5132.9	4062.0	3995.0	4146.5	4269.8	4185.3	3980.9	3762.5	3547.6	3508.9
50°	10840.1	5347.9	3966.9	3804.8	3991.5	4185.3	4121.9	3882.3	3656.8	3526.5	3501.8
52.5°	11766.7	5619.1	3850.6	3593.4	3801.3	4146.5	4136.0	3868.2	3558.2	3470.1	3449.0
55°	12911.6	5886.9	3706.2	3346.8	3632.2	4114.8	4097.2	3752.0	3537.0	3473.6	3466.6
57.5°	14243.3	6274.4	3498.3	3096.7	3438.4	3984.5	3945.7	3681.5	3466.6	3420.8	3417.3
60°	16388.8	6876.8	3202.4	2867.7	3241.1	3755.5	3804.8	3561.7	3353.9	3343.3	3339.8
62.5°	19210.7	7722.3	2895.9	2631.6	3012.1	3459.5	3600.5	3399.7	3234.1	3286.9	3294.0
65°	23107.1	8434.0	2578.8	2430.8	2758.5	3174.2	3406.7	3248.2	3100.2	3202.4	3202.4
67.5°	25647.1	8448.1	2289.9	2223.0	2501.3	2934.6	3202.4	3068.5	2927.6	3100.2	3107.2
70°	25118.7	7401.7	2050.4	2004.6	2251.2	2677.4	2976.9	2871.2	2709.2	2864.2	2807.8
71°	24266.1	6820.4	1955.2	1920.0	2152.5	2554.1	2871.2	2783.1	2621.1	2723.2	2691.5
72.5°	22906.3	5922.1	1800.2	1807.3	2004.6	2399.1	2723.2	2631.6	2469.6	2526.0	2515.4
75°	19362.2	5171.7	1539.5	1571.2	1722.7	2134.9	2427.3	2356.9	2191.3	2191.3	2180.7
77.5°	12104.9	3614.6	1278.8	1296.4	1462.0	1828.4	2085.6	2025.7	1867.2	1814.3	1800.2
80°	4516.4	1867.2	1000.5	1021.7	1123.8	1440.9	1726.2	1669.9	1507.8	1447.9	1391.6
82.5°	1708.6	937.1	736.3	718.7	827.9	1099.2	1352.8	1285.9	1159.1	1014.6	972.3
85°	644.7	465.0	450.9	436.8	486.2	651.7	838.5	824.4	690.5	588.3	577.8
87.5°	169.1	151.5	176.1	130.3	137.4	123.3	126.8	52.8	24.7	10.6	7.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)