

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: P531522

Luminaire Tested: **GALN-SA6D-740-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531522  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6D-740-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40045 lumens  
Efficiency: N/A  
Efficacy: 108.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

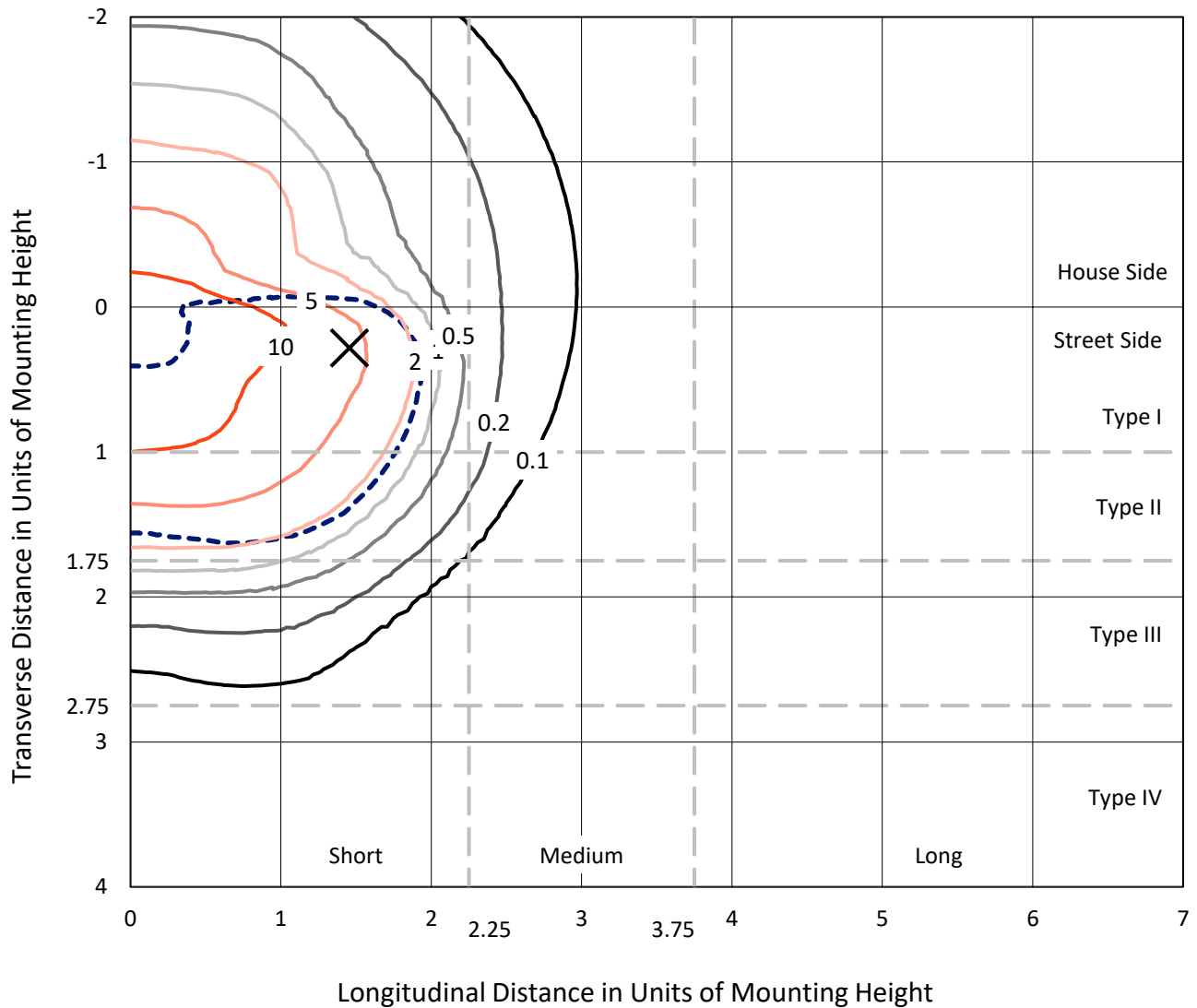
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

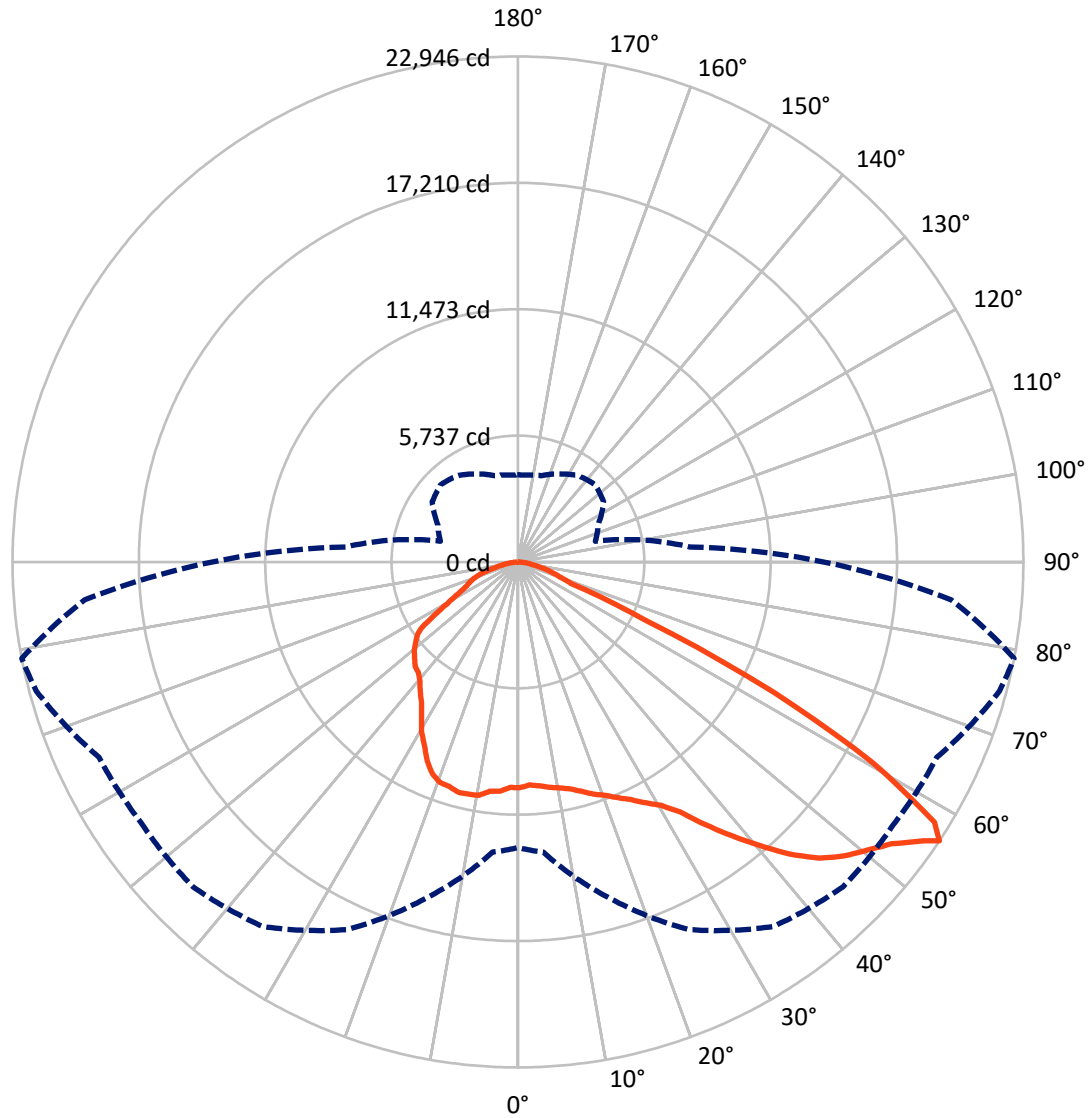
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11826.2	0.0	11826.2
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	28218.8	0.0	28218.8
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	40045.0	0.0	40045.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	931.5	2.3
10°-20°	2549.4	6.4
20°-30°	4361.5	10.9
30°-40°	6684.6	16.7
40°-50°	9034.2	22.6
50°-60°	10376.0	25.9
60°-70°	4729.7	11.8
70°-80°	1166.1	2.9
80°-90°	211.9	0.5
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°	40045.0	100.0
0°-180°	40045.0	100.0

**Coefficient of Utilization**



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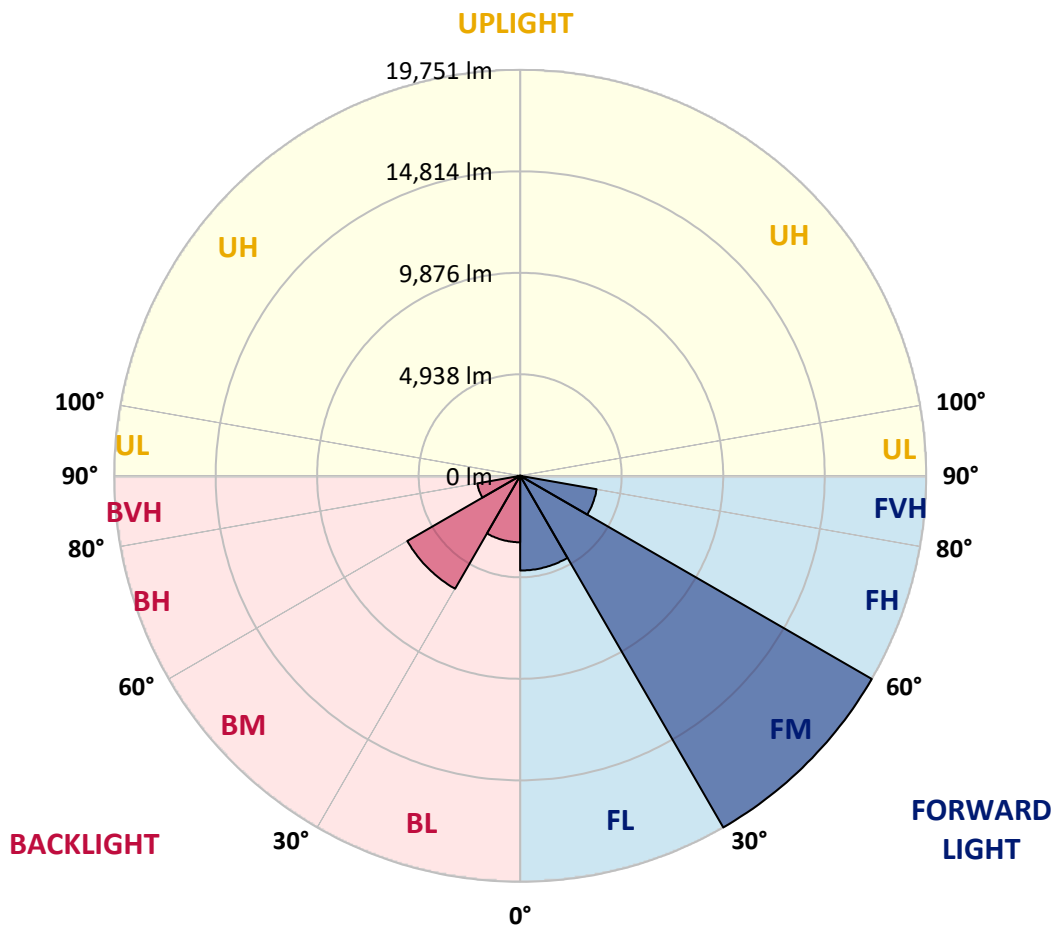
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4607.5	11.5			
FM (30°-60°)	19751.4	49.3			
FH (60°-80°)	3775.3	9.4			G2/5000
FVH (80°-90°)	84.6	0.2			G1/100
BL (0°-30°)	3235.0	8.1	B4/5000		
BM (30°-60°)	6343.4	15.8	B4/8500		
BH (60°-80°)	2120.5	5.3	B3/2500		G3/2500
BVH (80°-90°)	127.3	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	10245.9	10245.9	10245.9	10245.9	10245.9	10245.9	10245.9	10245.9	10245.9	10245.9	10245.9
2.5°	9747.1	9722.2	9782.0	9826.9	9881.8	9951.6	9986.5	10006.5	10181.1	10136.2	10270.9
5°	9537.6	9472.7	9517.6	9552.6	9647.3	9732.1	9826.9	9976.6	10136.2	10206.0	10370.6
7.5°	9353.0	9318.1	9308.1	9333.1	9462.8	9572.5	9737.1	9956.6	10216.0	10330.7	10425.5
10°	9048.7	8998.9	9073.7	9238.3	9273.2	9502.7	9692.2	10006.5	10231.0	10430.5	10709.8
12.5°	8914.1	8864.2	8879.1	8973.9	9218.3	9437.8	9662.3	10016.5	10490.4	10570.2	10944.3
15°	9128.6	9078.7	9093.6	9068.7	9303.1	9417.9	9772.0	10216.0	10669.9	10804.6	11203.7
17.5°	9617.4	9622.4	9557.5	9502.7	9447.8	9692.2	9936.7	10335.7	10739.8	11079.0	11378.3
20°	10550.2	10385.6	10255.9	9946.6	9861.8	9966.6	10275.9	10660.0	11024.1	11303.4	11642.6
22.5°	11268.5	11283.5	11098.9	10590.1	10405.6	10450.4	10714.8	11029.1	11428.2	11627.7	12016.8
25°	12311.1	12206.3	12006.8	11602.7	11188.7	11223.6	11418.2	11702.5	11812.3	11951.9	12375.9
27.5°	13263.8	13293.8	12899.7	12520.6	12006.8	11907.0	12256.2	12306.1	12121.5	12385.9	12530.6
30°	14231.6	14206.6	13947.2	13503.3	12999.5	13019.4	13174.1	12929.6	12675.2	12819.9	12919.6
32.5°	15234.2	14949.9	14939.9	14540.8	14156.7	13972.2	13782.6	13902.3	13508.3	13538.2	13443.4
35°	16037.3	16077.2	15847.8	15563.4	15373.9	15049.6	14530.9	14745.4	14670.5	14635.6	14226.6
37.5°	16621.0	16466.3	16581.0	16486.3	16306.7	15902.6	15363.9	15568.4	15603.3	15772.9	15299.1
40°	17099.8	17035.0	17339.3	17389.1	17264.4	16391.5	15423.8	16032.3	16556.1	16925.2	16361.6
42.5°	17329.3	17469.0	17788.2	18172.3	17893.0	16960.2	15733.0	16386.5	17553.8	18137.4	17369.2
45°	17638.6	17459.0	17932.9	18636.2	18641.2	17439.0	16032.3	16865.4	18331.9	19179.9	18057.6
47.5°	17324.3	17414.1	17902.9	18795.8	19025.3	17942.8	16840.4	17543.8	19189.9	19943.1	18696.1
50°	16621.0	16800.5	17693.4	18621.3	19314.6	18476.6	17768.3	18277.1	19983.1	20556.7	18800.8
52.5°	15887.7	15987.4	17384.2	18755.9	19444.3	19165.0	19010.3	19289.7	20950.8	21250.1	18930.5
55°	13892.4	14366.3	16361.6	18696.1	20077.8	20407.1	20287.3	20696.4	22048.2	22347.5	19638.9
56°	12969.5	13218.9	15748.0	18416.7	20202.5	20861.0	20801.1	20985.7	22631.8	22946.1	19748.6
57.5°	11263.5	11283.5	13428.5	17179.6	19733.6	20995.7	20935.8	21080.5	22517.1	22302.6	18785.9
60°	7048.4	7357.7	9138.5	13214.0	16780.6	19479.2	19818.4	18656.2	18985.4	18531.5	14615.7
62.5°	3651.4	3606.5	4788.8	7726.8	11138.8	13947.2	14261.5	14206.6	13697.8	13034.4	9547.6
65°	1820.7	1830.7	2504.1	3826.0	5706.6	7302.8	8180.8	8275.6	6923.7	6370.0	4529.4
67.5°	1321.9	1371.8	1800.8	2339.5	2688.7	3007.9	3686.3	3616.5	2738.6	2603.9	2414.3
70°	1027.6	1072.5	1461.6	1785.8	1621.2	1621.2	1765.9	1825.7	1950.4	2005.3	2070.1
72.5°	748.2	783.2	1117.4	1232.1	1062.5	1142.3	1321.9	1461.6	1591.3	1611.2	1686.0
75°	513.8	543.7	733.3	678.4	638.5	788.1	967.7	1097.4	1192.2	1242.1	1287.0
77.5°	334.2	344.2	419.0	354.2	409.0	508.8	628.5	738.3	833.0	872.9	882.9
80°	149.6	164.6	179.6	224.5	284.3	364.1	448.9	538.7	598.6	613.6	643.5
82.5°	84.8	84.8	109.7	159.6	209.5	264.4	324.2	389.1	458.9	473.9	468.9
85°	44.9	44.9	64.8	94.8	129.7	154.6	149.6	154.6	164.6	189.6	184.6
87.5°	15.0	15.0	20.0	20.0	24.9	29.9	24.9	34.9	44.9	44.9	44.9
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°	10245.9	10245.9	10245.9	10245.9	10245.9	10245.9	10245.9	10245.9	10245.9	10245.9	10245.9
2.5°	10231.0	10275.9	10216.0	10345.7	10345.7	10320.8	10196.0	10236.0	10265.9	10265.9	10290.8
5°	10425.5	10410.5	10450.4	10295.8	10201.0	10166.1	9961.6	9861.8	9777.0	9772.0	9697.2
7.5°	10535.3	10495.3	10480.4	10365.6	9946.6	9692.2	9253.3	8998.9	8944.0	8749.4	8824.3
10°	10709.8	10784.7	10709.8	10086.3	9502.7	8919.0	8490.1	8096.0	7941.3	7816.6	7741.8
12.5°	11069.0	11034.1	10600.1	9757.1	8939.0	8245.6	7607.1	7193.1	7038.5	6928.7	6918.7
15°	11373.3	11198.7	10535.3	9238.3	8061.1	7322.8	6799.0	6504.7	6434.9	6444.9	6489.8
17.5°	11478.0	11358.3	10196.0	8699.6	7407.6	6539.6	6295.2	6250.3	6315.2	6390.0	6409.9
20°	11642.6	11453.1	10056.4	7966.3	6599.5	6050.8	6035.8	6195.4	6315.2	6424.9	6439.9
22.5°	11986.8	11508.0	9602.4	7272.9	6045.8	5906.1	6050.8	6185.5	6370.0	6459.8	6380.0
25°	12086.6	11388.2	8963.9	6439.9	5696.6	5816.3	5971.0	6155.5	6285.2	6335.1	6370.0
27.5°	12171.4	11203.7	8101.0	5886.2	5586.9	5811.3	5971.0	6125.6	6195.4	6240.3	6280.2
30°	12410.8	11148.8	7352.7	5517.0	5517.0	5711.6	5916.1	5956.0	6050.8	6105.7	6175.5
32.5°	12530.6	10769.7	6584.5	5282.6	5447.2	5761.5	5776.4	5851.3	5856.2	5901.1	5826.3
35°	12844.8	10500.3	5871.2	5113.0	5477.1	5711.6	5786.4	5741.5	5497.1	5377.4	5402.3
37.5°	13074.3	10365.6	5357.4	5093.0	5482.1	5766.5	5806.4	5467.2	5212.8	5013.2	5063.1
40°	13692.8	10031.4	4968.3	5058.1	5527.0	5826.3	5716.6	5347.4	4888.5	4684.0	4649.1
42.5°	14166.7	9792.0	4723.9	5018.2	5561.9	5911.1	5671.7	5108.0	4639.1	4449.5	4499.4
45°	14715.4	9737.1	4594.2	5028.2	5621.8	5956.0	5616.8	4923.4	4424.6	4349.8	4334.8
47.5°	14910.0	9343.1	4454.5	4943.4	5606.8	5941.0	5432.2	4783.8	4344.8	4354.8	4394.7
50°	14585.7	8939.0	4349.8	4768.8	5507.1	5806.4	5142.9	4599.2	4299.9	4424.6	4494.4
52.5°	14171.7	8525.0	4135.3	4534.3	5302.5	5596.9	5008.2	4589.2	4255.0	4215.1	4230.1
55°	14296.4	8185.8	3836.0	4215.1	4973.3	5207.8	4858.6	4494.4	4145.3	3995.6	4045.5
56°	13892.4	7836.6	3641.4	4015.6	4748.8	4958.4	4783.8	4409.6	4055.5	3955.7	3955.7
57.5°	12750.0	6664.3	3387.0	3696.3	4275.0	4524.4	4639.1	4359.8	3955.7	3781.1	3786.1
60°	9402.9	4738.9	3037.9	3257.3	3541.7	3741.2	4275.0	4220.1	3706.3	3586.6	3541.7
62.5°	5796.4	3461.9	2788.4	2873.3	3017.9	3182.5	3731.2	3821.0	3441.9	3312.2	3282.3
65°	3247.4	2648.8	2598.9	2633.8	2703.6	2788.4	3097.7	3297.3	3037.9	2838.3	2828.4
67.5°	2374.4	2369.4	2409.3	2439.3	2469.2	2469.2	2544.0	2623.8	2588.9	2429.3	2414.3
70°	2110.0	2125.0	2154.9	2159.9	2169.9	2135.0	2075.1	2050.2	2090.1	1990.3	1970.4
72.5°	1740.9	1790.8	1825.7	1830.7	1775.8	1730.9	1651.1	1566.3	1536.4	1516.4	1511.4
75°	1336.9	1371.8	1386.7	1381.8	1361.8	1297.0	1202.2	1117.4	1062.5	1002.6	1032.6
77.5°	902.9	952.8	977.7	977.7	947.8	848.0	803.1	738.3	683.4	618.5	628.5
80°	633.5	668.4	708.3	703.3	653.5	603.6	538.7	478.9	434.0	384.1	379.1
82.5°	473.9	493.8	513.8	503.8	468.9	419.0	374.1	319.3	269.4	234.4	234.4
85°	169.6	184.6	224.5	234.4	254.4	254.4	214.5	179.6	144.7	119.7	119.7
87.5°	49.9	49.9	54.9	54.9	49.9	54.9	44.9	49.9	54.9	34.9	34.9
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)