

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: P454605

Luminaire Tested: **GALN-SA5D-727-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454605  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA5D-727-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32340 lumens  
Efficiency: N/A  
Efficacy: 104.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

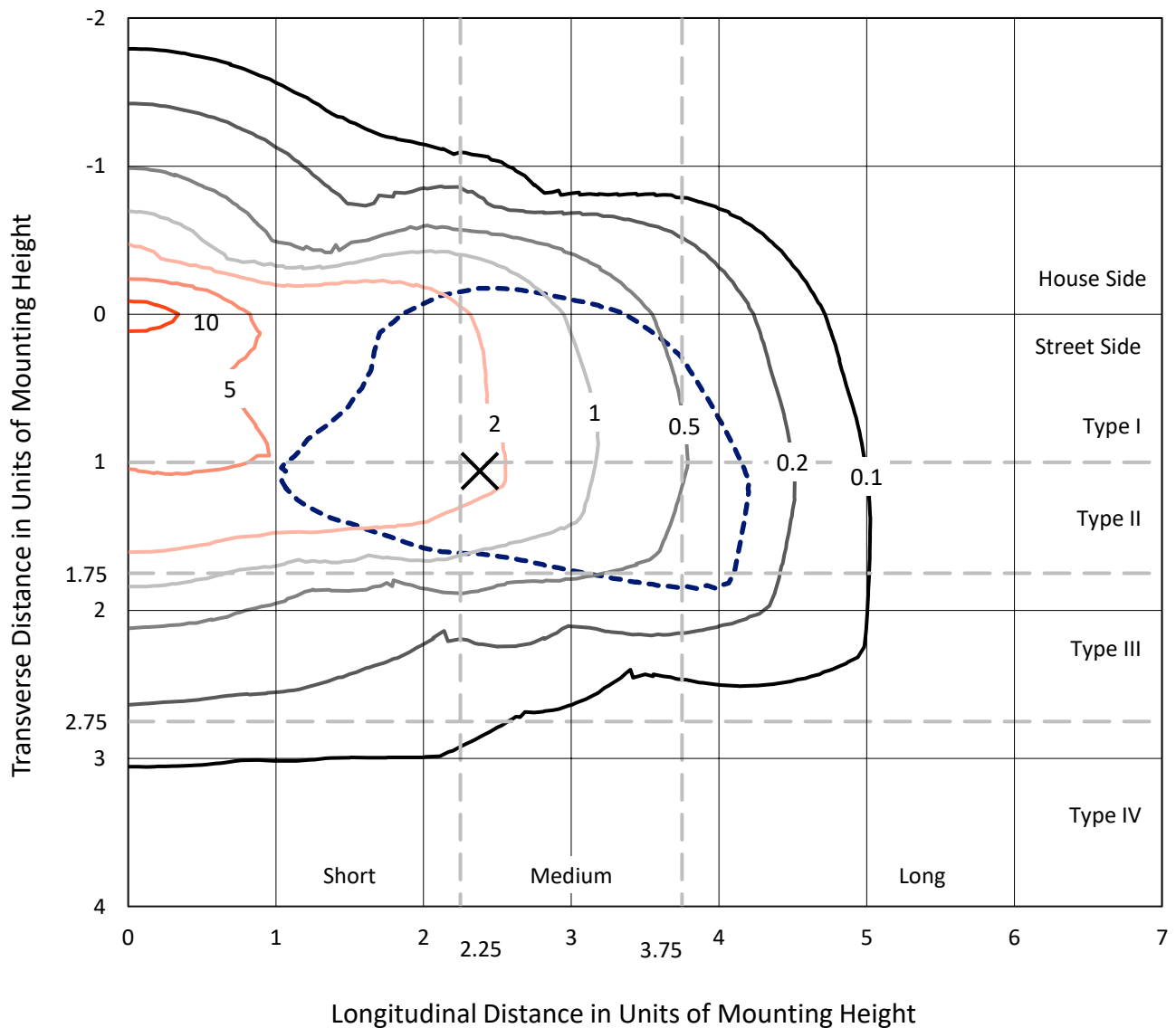
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

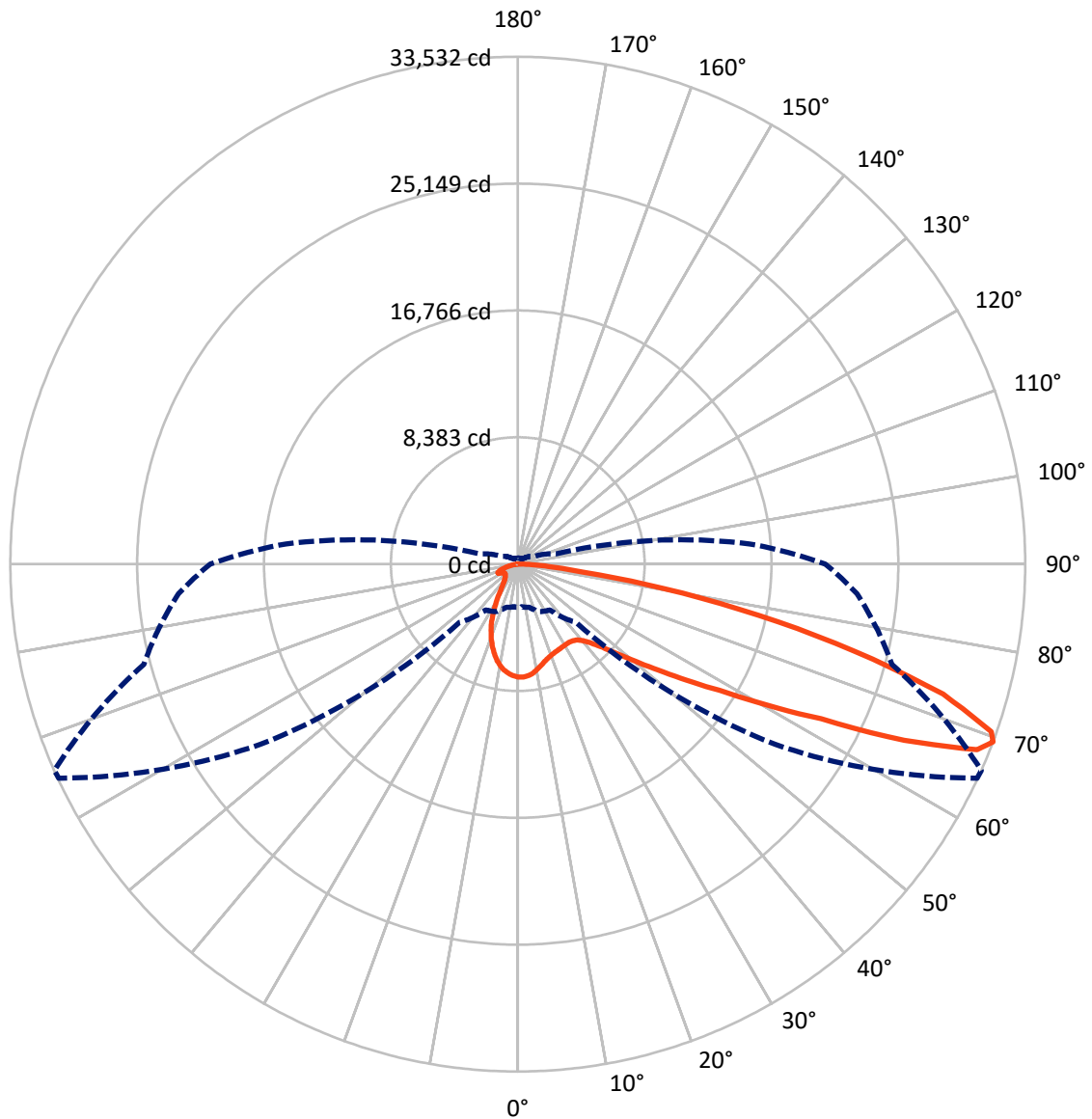
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6081.9	0.0	6081.9
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	26258.1	0.0	26258.1
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	32340.0	0.0	32340.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	648.5	2.0
10°-20°	1538.3	4.8
20°-30°	2094.1	6.5
30°-40°	2814.1	8.7
40°-50°	4201.9	13.0
50°-60°	6683.8	20.7
60°-70°	8220.7	25.4
70°-80°	5348.8	16.5
80°-90°	789.8	2.4
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°	32340.0	100.0
0°-180°	32340.0	100.0

**Coefficient of Utilization**



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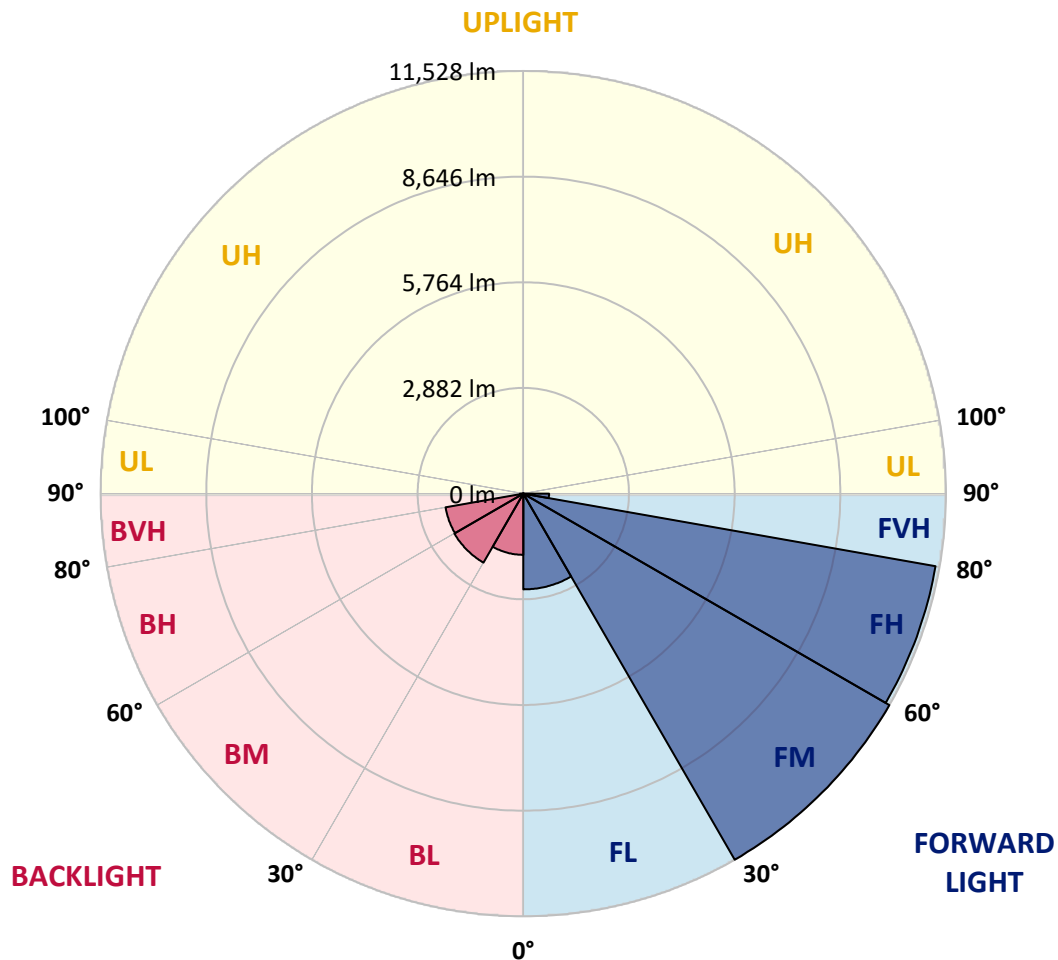
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2611.4	8.1			
FM	(30°-60°)	11528.2	35.6			
FH	(60°-80°)	11416.2	35.3			G4/12000
FVH	(80°-90°)	702.2	2.2			G4/750
BL	(0°-30°)	1669.5	5.2	B3/2500		
BM	(30°-60°)	2171.5	6.7	B2/2500		
BH	(60°-80°)	2153.3	6.7	B3/2500		G3/2500
BVH	(80°-90°)	87.6	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	7468.2	7468.2	7468.2	7468.2	7468.2	7468.2	7468.2	7468.2	7468.2	7468.2	7468.2
2.5°	7206.7	7235.4	7267.6	7303.4	7371.5	7409.1	7436.0	7466.4	7470.0	7486.1	7473.6
5°	6674.8	6708.8	6757.2	6825.3	6927.3	7086.7	7251.5	7385.8	7401.9	7477.2	7498.7
7.5°	6230.7	6250.4	6289.8	6399.0	6544.1	6721.4	6961.4	7233.6	7273.0	7452.1	7514.8
10°	5868.9	5888.6	5935.2	6048.0	6191.3	6413.3	6676.6	7034.8	7067.0	7375.1	7518.4
12.5°	5598.5	5616.4	5666.5	5777.6	5942.3	6150.1	6440.2	6819.9	6866.4	7273.0	7484.3
15°	5392.5	5426.5	5467.7	5559.1	5732.8	5933.4	6214.5	6622.9	6660.5	7165.5	7461.0
17.5°	5304.8	5320.9	5349.5	5433.7	5560.9	5757.9	6040.8	6468.9	6513.6	7090.3	7455.7
20°	5308.3	5324.5	5329.8	5376.4	5467.7	5637.9	5917.3	6347.1	6400.8	7024.1	7464.6
22.5°	5430.1	5431.9	5412.2	5396.1	5431.9	5573.4	5829.5	6255.7	6318.4	6995.4	7471.8
25°	5618.2	5650.4	5621.7	5546.5	5480.3	5548.3	5795.5	6205.6	6264.7	6954.2	7462.8
27.5°	5922.6	5928.0	5904.7	5802.6	5630.7	5580.6	5781.1	6168.0	6218.1	6923.8	7418.1
30°	6331.0	6314.8	6293.4	6180.5	5910.1	5704.1	5811.6	6134.0	6185.9	6879.0	7364.3
32.5°	6744.7	6794.8	6775.1	6642.6	6291.6	5944.1	5910.1	6130.4	6173.4	6845.0	7305.2
35°	7183.4	7206.7	7299.9	7231.8	6871.8	6332.8	6094.6	6185.9	6219.9	6846.7	7264.0
37.5°	7527.3	7590.0	7808.5	7867.6	7529.1	6846.7	6393.6	6343.5	6357.8	6934.5	7280.2
40°	7942.8	8050.3	8331.4	8573.2	8351.1	7514.8	6902.3	6635.4	6653.3	7145.8	7385.8
42.5°	8469.3	8544.6	8922.4	9250.2	9214.4	8397.7	7518.4	7113.6	7122.6	7566.7	7681.3
45°	9085.4	9192.9	9617.3	10109.8	10194.0	9397.0	8408.4	7837.1	7831.8	8220.4	8232.9
47.5°	9873.4	9939.7	10360.6	10897.8	11238.1	10652.5	9488.4	8875.9	8818.6	9173.2	9071.1
50°	10598.8	10702.6	11021.4	11608.8	12456.0	12122.8	10908.6	10222.7	10088.3	10419.7	10247.7
52.5°	10903.2	11012.5	11281.1	12010.0	13500.1	14024.8	12712.1	11829.1	11605.3	11859.6	11796.9
55°	10374.9	10516.4	10767.1	11653.6	13958.6	16218.7	15144.2	13686.3	13523.4	13414.1	13432.0
57.5°	8954.7	9089.0	9427.5	10405.3	13410.5	17810.9	18616.8	16073.7	15724.4	15221.2	15307.1
60°	6816.3	6900.5	7076.0	8159.5	11786.2	18224.6	22560.4	19091.4	18869.3	17021.1	17082.0
62.5°	4840.9	4935.8	5057.6	5598.5	8628.7	17058.7	25648.0	23305.5	22512.1	18885.4	18826.3
65°	3931.1	3866.6	4013.5	4266.0	5063.0	13220.7	26342.9	29154.7	28062.2	21340.8	20520.5
67.5°	3232.6	3164.6	3309.7	3759.2	3850.5	7674.2	23839.2	32951.4	32732.9	24011.1	22241.6
69°	2861.9	2826.1	2953.3	3465.5	3696.5	5449.8	20767.7	33479.8	33531.7	25585.3	22506.7
70°	2578.9	2593.3	2716.9	3316.8	3626.6	4493.5	17750.0	32750.9	33191.4	26371.5	22220.1
72.5°	1898.4	1928.8	2100.8	2747.3	3560.4	3812.9	10562.9	28606.6	29385.7	26418.1	20327.1
75°	1327.1	1312.8	1465.0	2068.5	3363.4	3778.9	6203.8	22123.4	23006.4	22834.4	17080.2
77.5°	868.6	891.9	1013.7	1461.4	2829.7	3750.2	4043.9	15695.8	16268.9	15271.3	10102.7
80°	612.5	610.7	678.8	997.6	2099.0	3603.4	3311.4	9893.1	9748.1	6001.4	2996.2
82.5°	351.0	376.1	454.9	702.0	1404.1	3171.7	3046.4	4731.7	4319.7	1710.3	1011.9
85°	195.2	204.2	270.4	424.5	820.2	2389.1	2659.5	2152.7	2030.9	714.6	435.2
87.5°	62.7	68.1	112.8	214.9	372.5	1128.3	1506.2	994.0	917.0	257.9	175.5
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°	7468.2	7468.2	7468.2	7468.2	7468.2	7468.2	7468.2	7468.2	7468.2	7468.2	7468.2
2.5°	7479.0	7500.4	7443.1	7387.6	7337.5	7267.6	7204.9	7153.0	7117.2	7111.8	7093.9
5°	7504.0	7505.8	7396.6	7249.7	7106.4	6948.8	6785.9	6669.4	6560.2	6499.3	6468.9
7.5°	7521.9	7505.8	7308.8	7070.6	6794.8	6508.3	6221.7	5992.5	5815.2	5745.3	5772.2
10°	7514.8	7464.6	7176.3	6794.8	6393.6	5965.6	5553.7	5231.3	4935.8	4783.6	4787.2
12.5°	7475.4	7393.0	6979.3	6485.0	5895.8	5322.7	4692.3	4257.1	3915.0	3712.6	3649.9
15°	7441.3	7298.1	6748.2	6064.1	5331.6	4513.2	3744.8	3207.6	2921.0	2761.6	2759.8
17.5°	7405.5	7206.7	6495.7	5618.2	4683.3	3630.2	2824.3	2414.2	2279.9	2296.0	2269.1
20°	7367.9	7099.3	6232.5	5122.1	3893.5	2707.9	2115.1	1948.5	1986.1	2059.6	2070.3
22.5°	7324.9	6984.7	5949.5	4575.8	3062.5	2038.1	1715.7	1690.6	1787.4	1902.0	1918.1
25°	7258.7	6841.4	5593.1	4004.5	2362.2	1642.3	1502.6	1520.5	1615.4	1712.1	1722.9
27.5°	7165.5	6664.1	5233.1	3291.7	1774.8	1409.5	1373.6	1396.9	1443.5	1502.6	1516.9
30°	7040.2	6463.5	4819.4	2675.7	1422.0	1293.1	1278.7	1291.3	1318.1	1343.2	1350.4
32.5°	6914.8	6270.1	4402.1	2048.8	1268.0	1216.0	1201.7	1201.7	1201.7	1205.3	1207.1
35°	6798.4	6087.4	3954.4	1595.7	1187.4	1155.2	1135.5	1114.0	1110.4	1097.8	1097.8
37.5°	6733.9	5920.8	3478.0	1336.0	1128.3	1105.0	1078.1	1042.3	1022.6	1024.4	1020.8
40°	6746.5	5811.6	3044.6	1189.2	1079.9	1054.9	1013.7	972.5	959.9	959.9	956.4
42.5°	6887.9	5775.8	2629.1	1112.2	1033.4	1004.7	952.8	915.2	908.0	906.2	909.8
45°	7213.9	5863.5	2256.6	1062.0	994.0	951.0	899.1	865.0	857.9	857.9	856.1
47.5°	7849.7	6148.3	1989.7	1029.8	965.3	909.8	856.1	822.0	809.5	805.9	805.9
50°	8838.3	6766.2	1790.9	1001.1	929.5	872.2	816.7	777.3	757.6	755.8	754.0
52.5°	10211.9	7729.7	1713.9	979.6	890.1	832.8	771.9	734.3	709.2	703.8	700.3
55°	11818.4	9074.7	1819.6	963.5	848.9	788.0	725.3	685.9	662.6	651.9	650.1
57.5°	13679.2	10690.1	2220.8	942.0	811.3	739.7	678.8	639.4	614.3	601.8	598.2
60°	15350.1	12350.3	2921.0	929.5	779.1	687.7	625.0	589.2	565.9	553.4	551.6
62.5°	17185.8	13933.5	3757.4	963.5	764.7	637.6	574.9	542.7	523.0	510.4	510.4
65°	19146.9	15518.5	4310.8	1078.1	786.2	598.2	521.2	494.3	476.4	467.4	465.6
67.5°	20468.6	16066.5	3551.4	1196.3	839.9	555.2	469.2	447.7	437.0	428.0	428.0
69°	20325.3	15373.4	2620.1	1226.8	856.1	533.7	440.6	424.5	410.1	406.5	403.0
70°	19872.2	14583.6	2195.7	1207.1	843.5	514.0	422.7	403.0	390.4	386.8	385.1
72.5°	17699.8	12647.6	1635.1	1049.5	718.2	445.9	374.3	356.4	345.7	340.3	340.3
75°	14705.4	10337.3	1276.9	834.6	562.4	376.1	320.6	306.3	297.3	293.7	291.9
77.5°	8241.9	5772.2	917.0	653.7	426.2	304.5	268.6	256.1	247.1	243.6	243.6
80°	2296.0	1649.5	539.1	431.6	290.1	231.0	213.1	204.2	191.6	182.7	188.0
82.5°	865.0	714.6	308.0	259.7	184.5	154.0	148.6	141.5	136.1	123.6	123.6
85°	420.9	347.4	197.0	137.9	102.1	80.6	77.0	73.4	69.8	60.9	62.7
87.5°	145.1	154.0	86.0	50.1	30.4	19.7	16.1	9.0	9.0	9.0	9.0
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)