

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: P534031

Luminaire Tested: **GALN-SA9C-730-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534031  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9C-730-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33944 lumens  
Efficiency: N/A  
Efficacy: 70.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

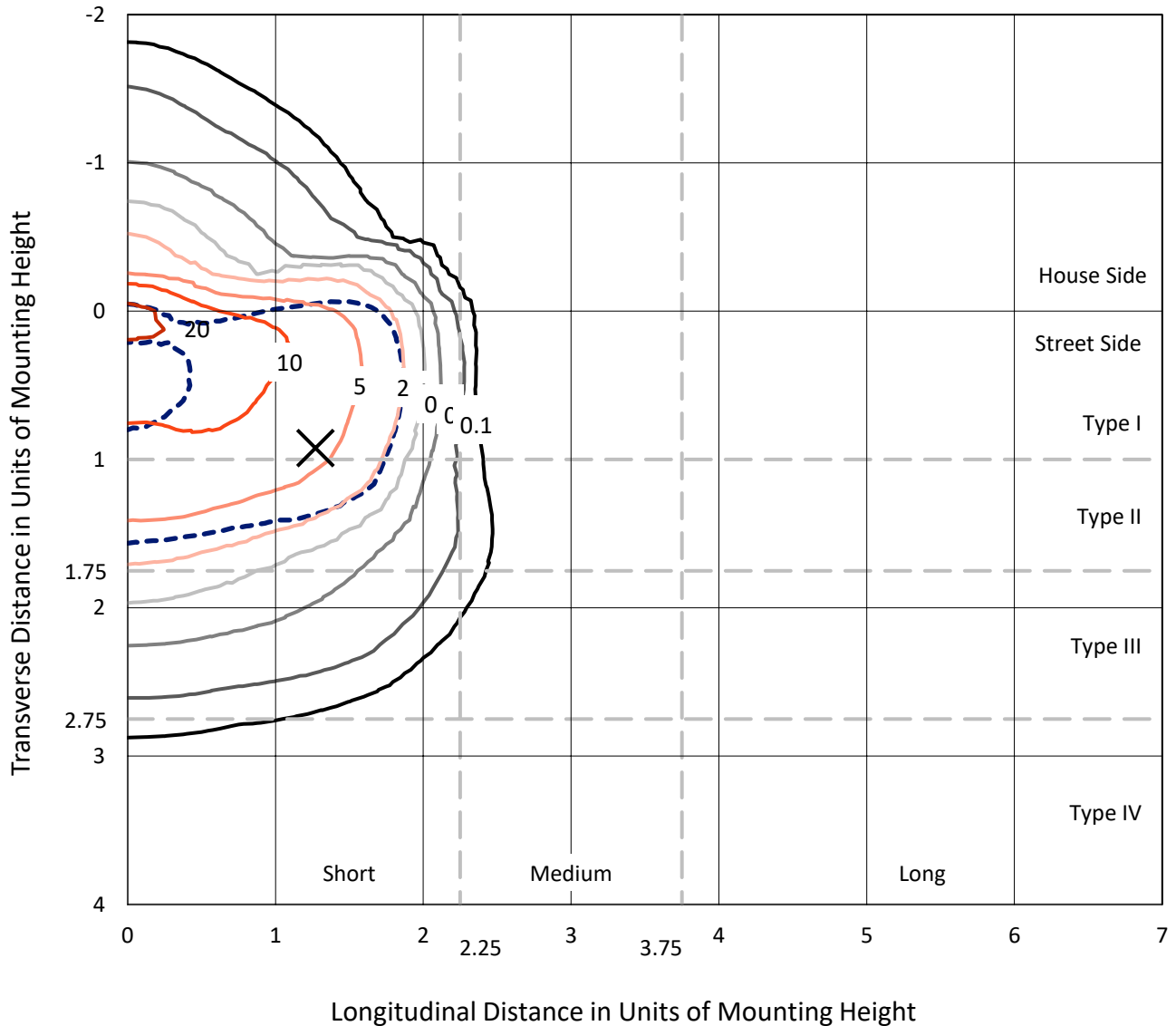
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

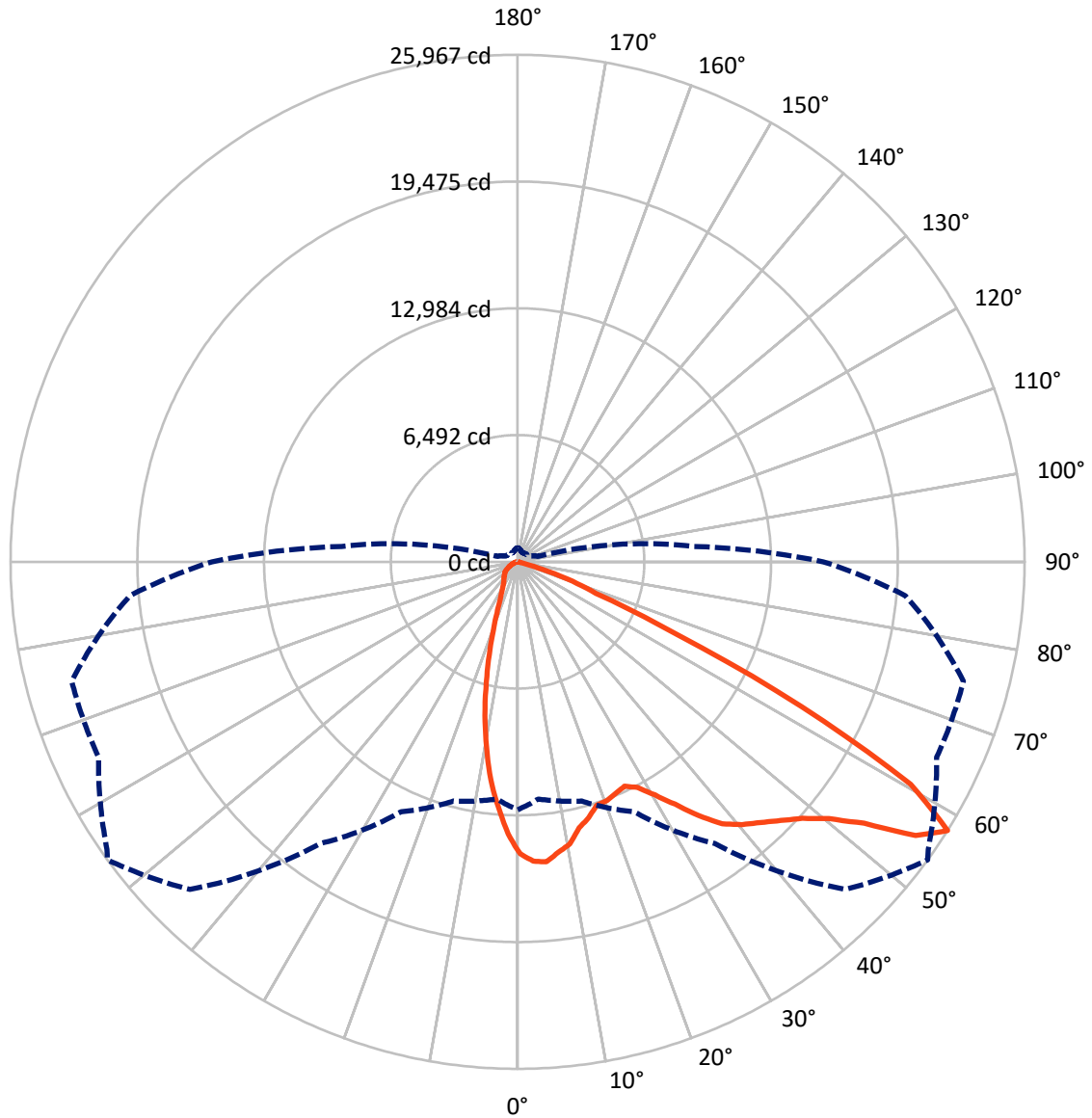
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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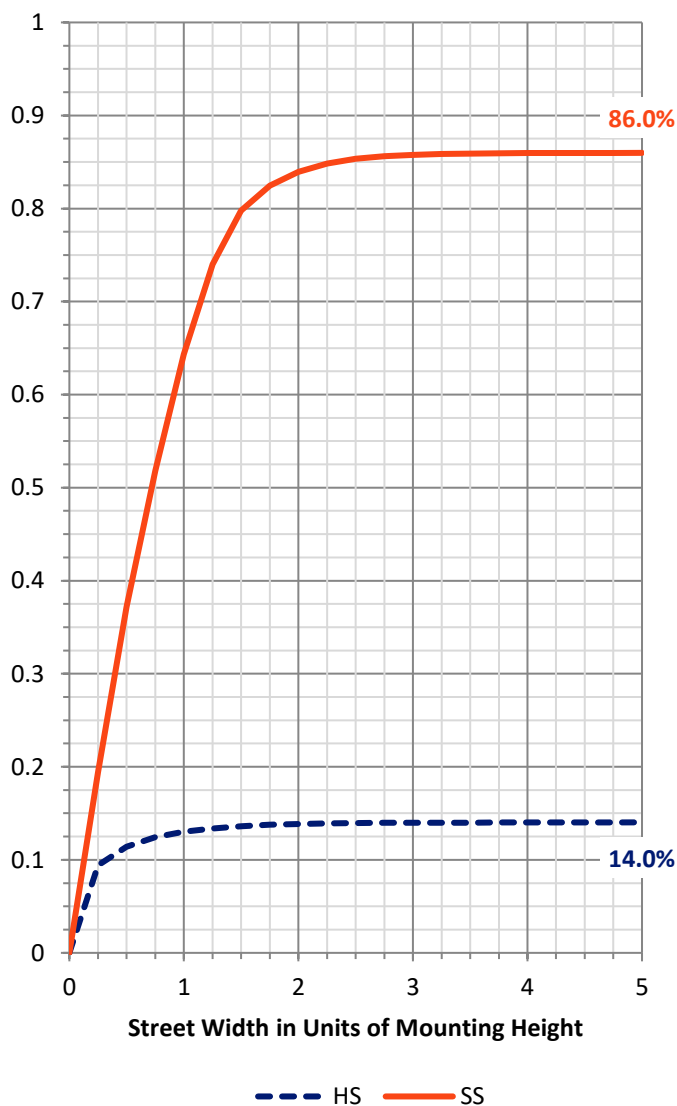
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4796.9	0.0	4796.9
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	29147.1	0.0	29147.1
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	33944.0	0.0	33944.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1251.3	3.7
10°-20°	2671.5	7.9
20°-30°	3540.2	10.4
30°-40°	5144.9	15.2
40°-50°	7629.2	22.5
50°-60°	9540.0	28.1
60°-70°	3763.1	11.1
70°-80°	374.7	1.1
80°-90°	29.1	0.1
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°	33944.0	100.0
0°-180°	33944.0	100.0

**Coefficient of Utilization**

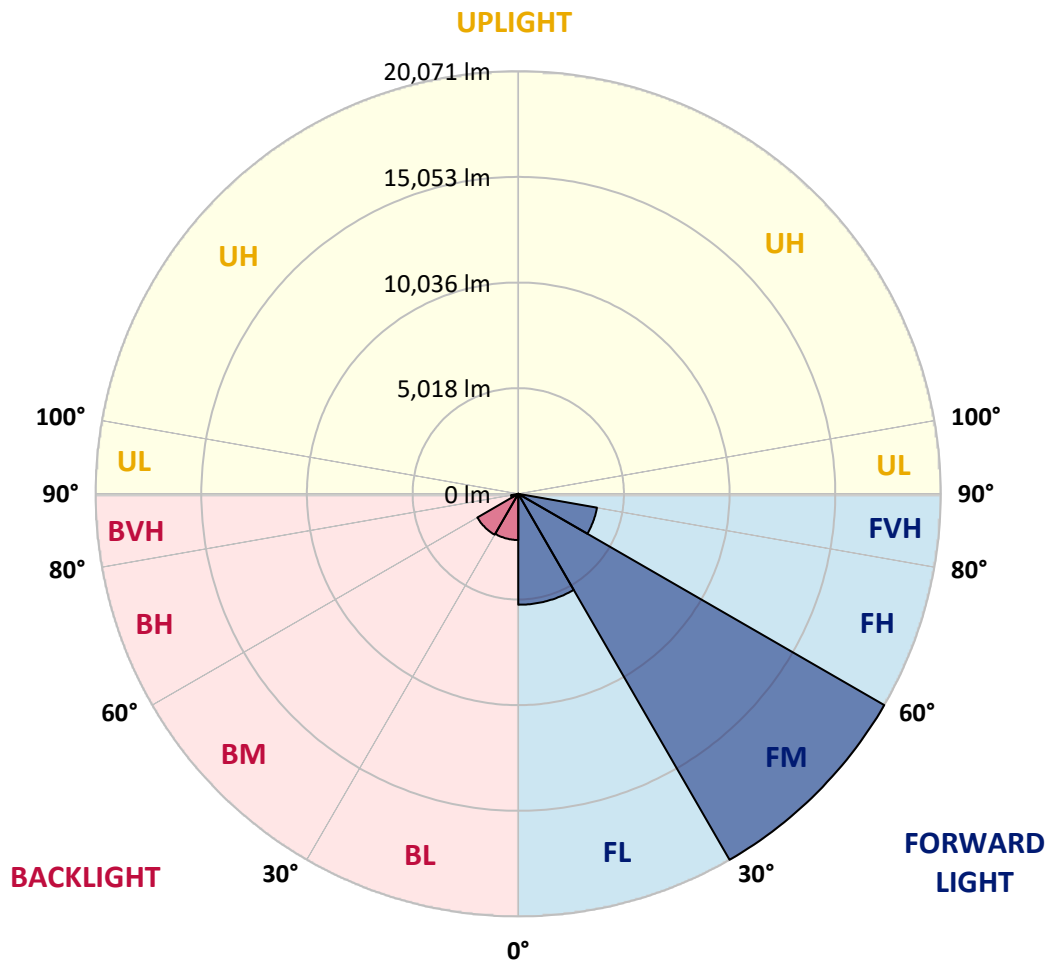


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5269.1	15.5			
FM (30°-60°)	20071.0	59.1			
FH (60°-80°)	3793.8	11.2			G2/5000
FVH (80°-90°)	13.2	0.0			G1/100
BL (0°-30°)	2193.9	6.5	B3/2500		
BM (30°-60°)	2243.1	6.6	B2/2500		
BH (60°-80°)	344.0	1.0	B1/500		G1/500
BVH (80°-90°)	15.9	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	14952.8	14952.8	14952.8	14952.8	14952.8	14952.8	14952.8	14952.8	14952.8	14952.8	14952.8
2.5°	15823.8	15659.7	15672.3	15615.5	15539.8	15596.6	15350.4	15407.2	15400.9	15066.4	14845.5
5°	15426.2	15602.9	15419.9	15571.4	15426.2	15584.0	15432.5	15318.9	15135.8	14889.7	14479.4
7.5°	14750.8	14580.4	14630.9	14820.2	14851.8	15205.3	15015.9	15161.1	15085.3	14599.3	14037.6
10°	13393.8	13355.9	13608.4	13860.8	14170.1	14548.8	14694.0	14611.9	14555.1	14372.1	13621.0
12.5°	12352.3	12459.6	12453.3	12869.9	13393.8	13608.4	13987.1	13974.5	14290.0	13949.2	13229.7
15°	11361.3	11418.1	11683.2	11942.0	12522.7	13135.0	13602.1	13665.2	14043.9	13804.0	12926.7
17.5°	10755.4	10673.3	10881.6	11190.9	11784.2	12585.8	13103.4	13254.9	13772.5	13722.0	12579.5
20°	10155.8	10155.8	10326.2	10692.3	11235.1	12137.7	13059.2	13015.0	13772.5	13627.3	12207.1
22.5°	9953.8	10054.8	10099.0	10376.7	11020.5	11796.9	12869.9	12951.9	13879.8	13583.1	12043.0
25°	10231.5	10099.0	10111.6	10332.5	10938.4	11632.8	12731.0	12914.1	14075.4	13804.0	11910.5
27.5°	10275.7	10408.3	10446.1	10597.6	11001.6	11683.2	13078.2	13450.6	14561.5	14321.6	11948.3
30°	10660.7	10793.3	10787.0	11045.7	11323.5	12093.5	13854.5	13930.3	15565.0	14971.7	12181.9
32.5°	11127.8	11266.7	11310.8	11613.8	11834.7	12844.6	14801.3	14997.0	16530.8	15994.2	12794.1
35°	11708.5	11658.0	11860.0	12162.9	12636.3	13942.9	15956.4	16284.6	17572.2	17319.7	13425.3
37.5°	12434.4	12371.2	12566.9	13059.2	13703.0	15243.1	17023.1	17237.7	18329.6	18550.5	14593.0
40°	12945.6	12970.9	13564.2	14226.9	14908.6	16480.3	17698.4	17906.7	18859.8	19699.3	15476.7
42.5°	13797.7	13955.5	14668.8	15476.7	16189.9	17408.1	18247.6	18449.6	19106.0	20620.8	16669.6
45°	15034.8	14965.4	15754.4	16657.0	17446.0	18373.8	18897.7	18828.3	19251.2	21536.1	17420.7
47.5°	16625.4	16638.1	17161.9	17932.0	18752.5	19213.3	19623.6	19377.4	19554.1	22501.8	18424.3
50°	17711.1	17805.7	18228.6	19017.6	19427.9	20134.8	20658.7	20507.2	20450.4	23082.5	19055.5
52.5°	17988.8	18272.8	18500.1	19484.7	20444.1	21561.3	22230.4	22552.3	21542.4	23278.1	19857.1
55°	15893.3	16145.7	16947.3	18298.1	20829.1	23820.9	24742.5	24748.8	22968.8	24149.2	20418.9
57.5°	12705.8	12194.5	12686.8	14119.6	17610.1	23726.3	25967.0	25670.3	23682.1	23637.9	19932.8
60°	8786.1	8659.9	8691.4	9259.5	12188.2	18872.5	23139.3	23524.3	21807.5	20488.3	15779.6
62.5°	6962.0	6854.7	6715.8	6652.7	7567.9	11759.0	16322.5	16865.3	15249.4	13286.5	9354.2
65°	5453.4	5390.3	5409.3	5661.7	5655.4	6671.6	8925.0	8704.1	6968.3	5150.5	2941.3
67.5°	3679.8	3774.5	3850.2	4614.0	5005.3	4645.5	4311.0	4184.8	2266.0	953.1	650.1
70°	2070.3	2082.9	2165.0	2884.5	3799.7	3604.1	2972.9	2972.9	1129.8	347.2	372.4
72.5°	1129.8	1092.0	1016.2	1243.4	1691.6	1716.8	1325.5	1155.1	334.5	227.2	208.3
75°	549.1	542.8	467.1	385.0	366.1	303.0	233.5	214.6	151.5	145.2	126.2
77.5°	113.6	107.3	56.8	56.8	63.1	69.4	88.4	88.4	107.3	107.3	88.4
80°	0.0	0.0	6.3	25.2	44.2	63.1	75.7	75.7	88.4	88.4	69.4
82.5°	0.0	0.0	6.3	18.9	37.9	56.8	69.4	75.7	88.4	94.7	75.7
85°	0.0	0.0	0.0	12.6	31.6	44.2	37.9	37.9	31.6	25.2	12.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	14952.8	14952.8	14952.8	14952.8	14952.8	14952.8	14952.8	14952.8	14952.8	14952.8	14952.8
2.5°	14731.9	14719.3	14428.9	14264.8	13968.1	13709.4	13501.1	13349.6	13349.6	13254.9	13166.5
5°	14315.3	14208.0	13589.4	13191.8	12630.0	12213.4	11929.4	11708.5	11361.3	11456.0	11083.6
7.5°	13797.7	13526.3	12705.8	12099.8	11323.5	10730.2	10124.2	9587.7	9070.1	8836.6	8962.8
10°	13242.3	12768.9	11664.3	10704.9	9739.2	8653.6	7946.6	7088.2	6558.0	6526.5	6387.6
12.5°	12655.3	12118.8	10774.3	9448.8	8180.2	6873.6	5794.3	4992.7	4632.9	4235.3	4311.0
15°	12213.4	11418.1	9783.4	8186.5	6501.2	5182.0	4096.4	3477.8	3137.0	3042.3	3010.8
17.5°	11733.7	10881.6	8773.5	6842.1	5100.0	3730.3	2947.6	2651.0	2518.4	2518.4	2499.5
20°	11235.1	10275.7	7769.9	5592.3	3825.0	2783.5	2360.6	2266.0	2259.6	2253.3	2253.3
22.5°	10906.9	9581.4	6861.0	4443.5	2884.5	2228.1	2051.4	2013.5	2038.7	2114.5	2114.5
25°	10559.7	8912.3	5857.4	3427.3	2234.4	1912.5	1811.5	1836.8	1899.9	1969.3	1944.1
27.5°	10206.3	8476.8	4910.6	2688.9	1830.4	1672.6	1634.8	1691.6	1761.0	1824.1	1805.2
30°	10124.2	8009.7	4014.3	2038.7	1571.7	1458.0	1483.3	1533.8	1603.2	1628.5	1653.7
32.5°	10250.5	7643.7	3288.5	1672.6	1369.7	1338.1	1338.1	1363.4	1407.5	1464.4	1445.4
35°	10610.2	7435.4	2600.5	1451.7	1256.1	1224.5	1218.2	1243.4	1268.7	1287.6	1268.7
37.5°	11159.4	7271.3	2127.1	1287.6	1180.3	1129.8	1117.2	1110.9	1136.1	1142.4	1155.1
40°	11860.0	7359.6	1805.2	1186.6	1104.6	1047.8	1009.9	1009.9	1009.9	1028.8	1035.1
42.5°	12617.4	7479.6	1559.0	1129.8	1035.1	965.7	927.8	915.2	927.8	953.1	946.8
45°	13412.7	7713.1	1401.2	1041.5	972.0	883.7	833.2	820.5	852.1	902.6	896.3
47.5°	14157.5	8047.6	1281.3	984.6	908.9	826.9	763.7	751.1	807.9	877.3	883.7
50°	14902.3	8628.3	1237.1	940.5	864.7	770.0	713.2	700.6	763.7	852.1	871.0
52.5°	15760.7	9253.2	1205.6	883.7	814.2	725.9	662.7	650.1	719.6	833.2	839.5
55°	16322.5	9783.4	1180.3	782.7	719.6	656.4	605.9	599.6	675.4	776.4	801.6
57.5°	15666.0	9044.9	1092.0	681.7	612.3	580.7	536.5	536.5	599.6	694.3	713.2
60°	11878.9	5952.1	776.4	549.1	517.6	498.6	479.7	479.7	530.2	599.6	605.9
62.5°	6955.7	3206.4	498.6	441.8	441.8	422.9	391.3	391.3	441.8	479.7	486.0
65°	2064.0	1028.8	404.0	378.7	372.4	340.8	309.3	303.0	340.8	359.8	353.5
67.5°	593.3	473.4	334.5	315.6	309.3	258.8	239.9	233.5	239.9	227.2	220.9
70°	353.5	321.9	258.8	265.1	233.5	189.4	170.4	164.1	151.5	132.5	119.9
72.5°	195.7	195.7	189.4	202.0	164.1	126.2	107.3	88.4	69.4	56.8	50.5
75°	119.9	126.2	132.5	138.9	107.3	82.1	69.4	44.2	25.2	12.6	12.6
77.5°	82.1	88.4	94.7	101.0	88.4	75.7	56.8	31.6	6.3	0.0	0.0
80°	63.1	69.4	82.1	88.4	94.7	101.0	75.7	31.6	6.3	0.0	0.0
82.5°	69.4	75.7	94.7	88.4	88.4	88.4	69.4	31.6	6.3	0.0	0.0
85°	12.6	18.9	31.6	31.6	44.2	56.8	44.2	12.6	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)