

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: P534026

Luminaire Tested: **GALN-SA9C-730-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534026  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)  
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-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 52377 lumens  
Efficiency: N/A  
Efficacy: 108.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

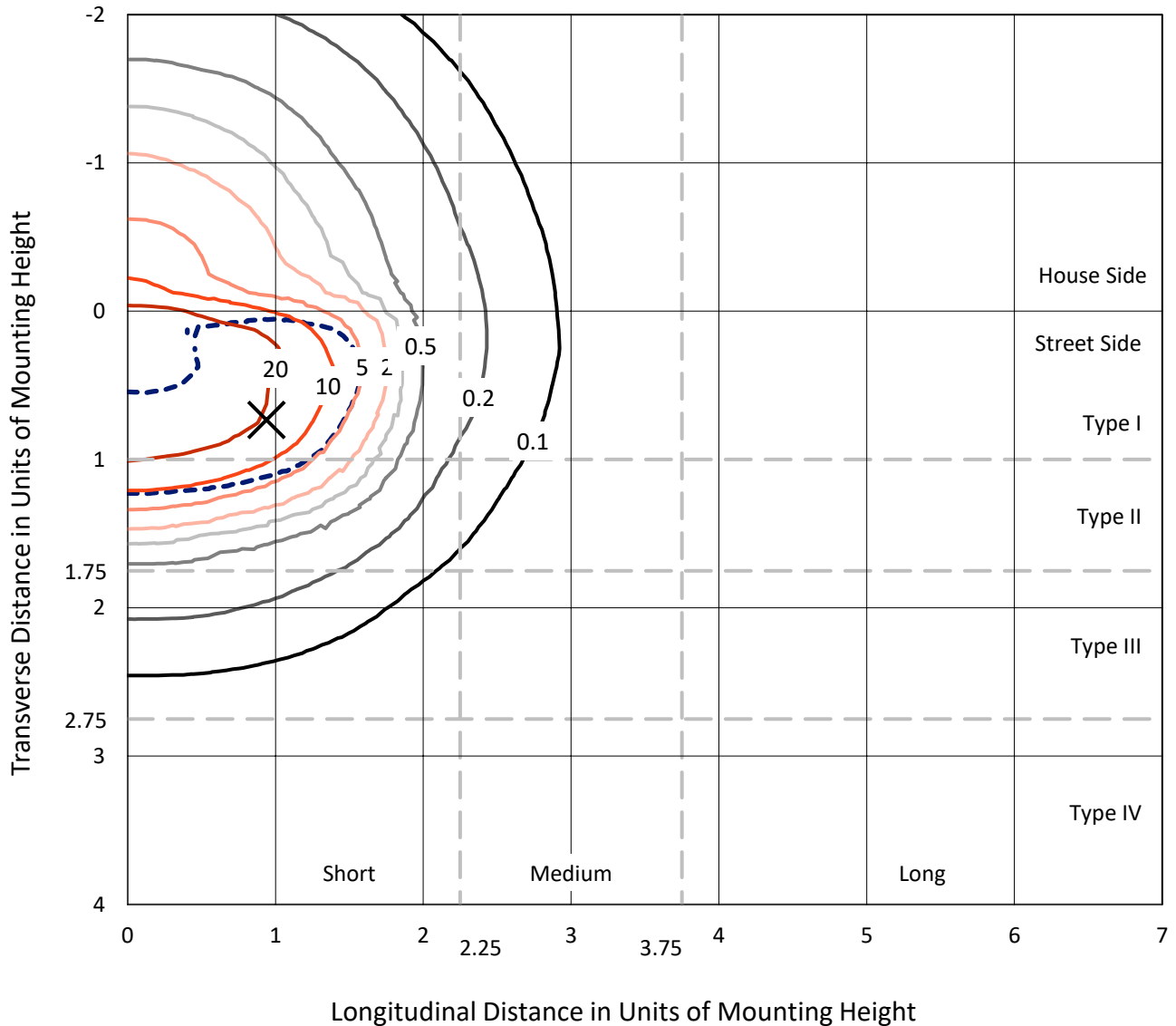
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

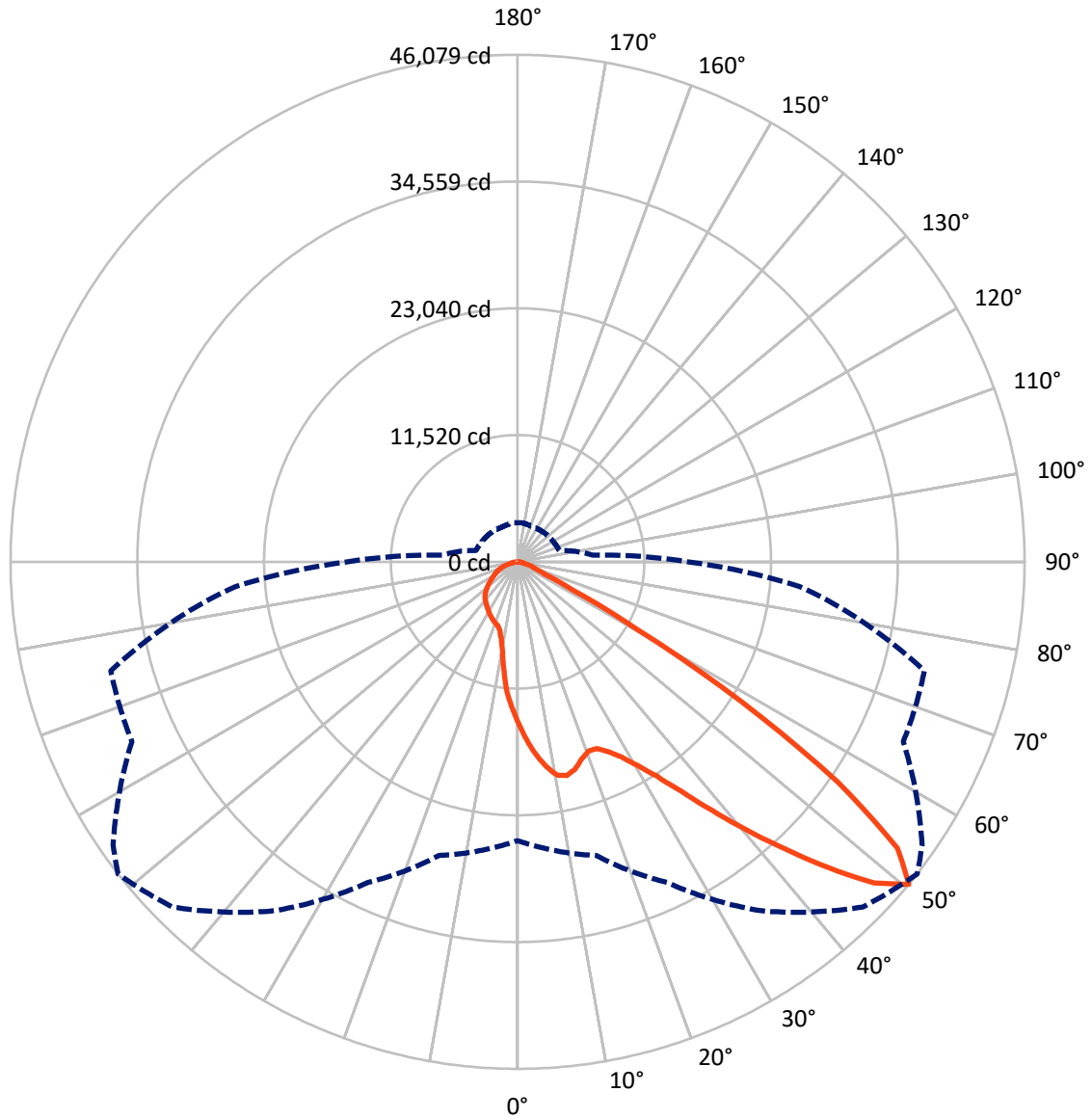
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 30.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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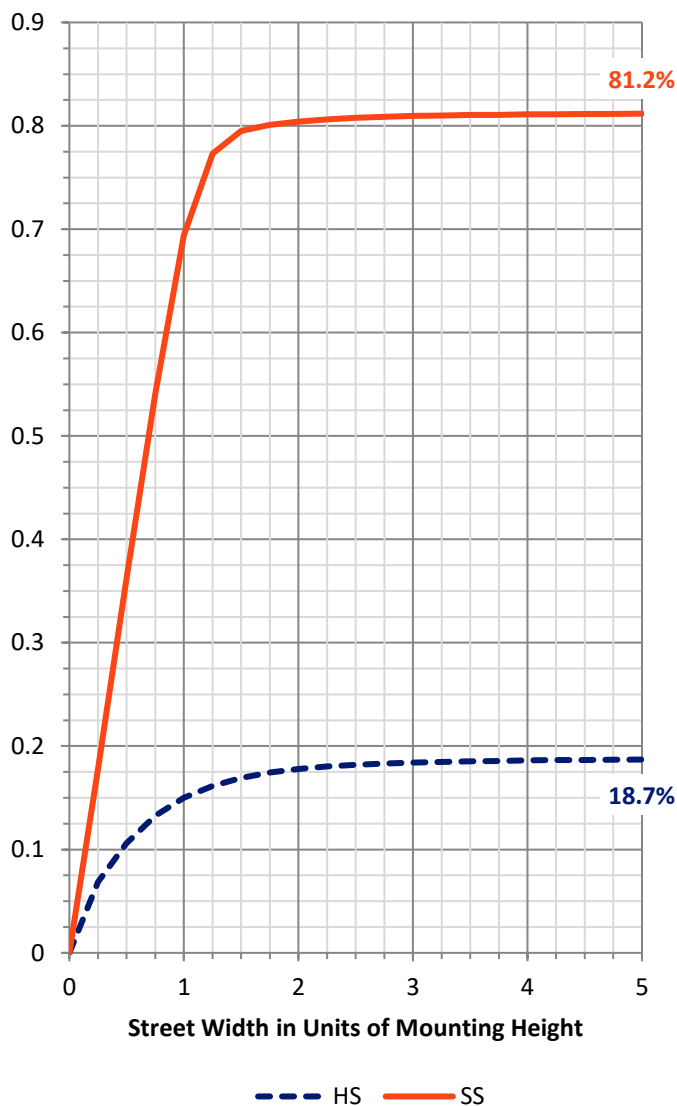
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9845.6	0.0	9845.6
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	42531.4	0.0	42531.4
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	52377.0	0.0	52377.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1360.8	2.6
10°-20°	3647.3	7.0
20°-30°	6143.8	11.7
30°-40°	10309.7	19.7
40°-50°	15771.4	30.1
50°-60°	11498.6	22.0
60°-70°	2559.0	4.9
70°-80°	923.0	1.8
80°-90°	163.4	0.3
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°	52377.0	100.0
0°-180°	52377.0	100.0

**Coefficient of Utilization**



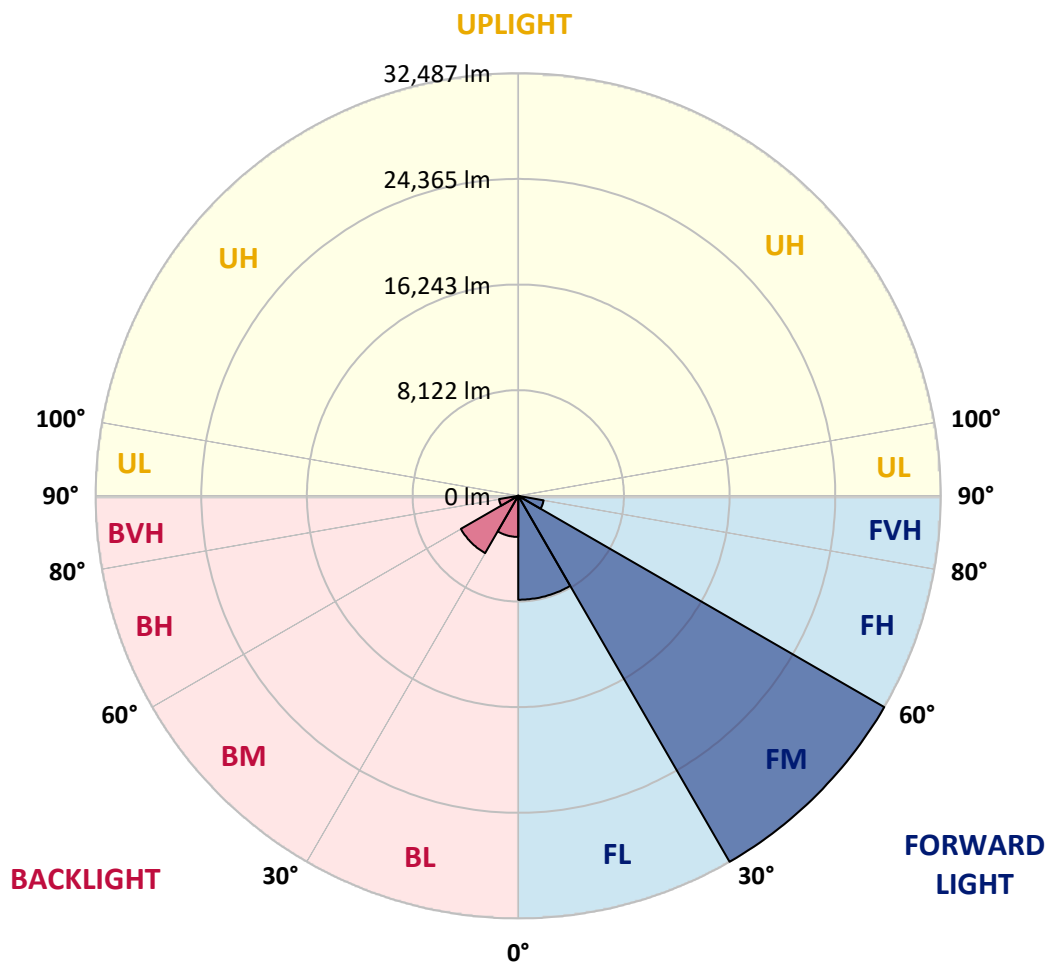
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7989.3	15.3			
FM (30°-60°)	32486.9	62.0			
FH (60°-80°)	1982.0	3.8			G2/5000
FVH (80°-90°)	73.2	0.1			G1/100
BL (0°-30°)	3162.6	6.0	B4/5000		
BM (30°-60°)	5092.8	9.7	B4/8500		
BH (60°-80°)	1500.0	2.9	B3/2500		G3/2500
BVH (80°-90°)	90.2	0.2			G1/100
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°	52°	55°	65°	75°	85°
0°	14764.2	14764.2	14764.2	14764.2	14764.2	14764.2	14764.2	14764.2	14764.2	14764.2	14764.2
2.5°	17383.8	17049.2	17087.1	16847.2	16588.4	16512.7	16247.6	15995.1	15805.7	15401.7	15029.3
5°	18999.7	18898.7	18747.2	18557.8	18362.2	17882.4	17611.0	17295.4	16601.1	15976.1	15357.6
7.5°	19233.2	19214.3	19296.4	19296.4	19365.8	19182.7	18797.7	18576.8	17838.2	16822.0	15673.2
10°	17592.1	17648.9	18046.5	18564.1	19283.7	19782.4	19719.3	19662.5	18854.5	17465.8	16045.6
12.5°	16285.4	16159.2	16392.8	16834.6	17914.0	19119.6	19933.9	19940.2	19731.9	18494.7	16317.0
15°	15546.9	15635.3	15698.4	15906.7	16721.0	18116.0	19548.8	19971.8	20887.0	19220.6	16746.2
17.5°	16020.3	15723.7	15711.0	15761.5	16178.1	17226.0	18835.6	19561.5	21518.2	20154.8	17276.5
20°	16638.9	16632.6	16455.9	16392.8	16386.4	17320.6	18368.5	19353.2	21852.8	21366.8	17813.0
22.5°	17724.6	17724.6	17434.3	17295.4	16998.7	17762.5	18431.6	19100.7	22408.3	22200.0	18071.8
25°	19542.5	19245.9	18747.2	18406.3	18235.9	18507.3	19100.7	19700.3	22894.3	23083.7	18608.3
27.5°	21221.6	20754.5	20508.3	19921.3	19694.0	19536.2	20079.1	20685.0	23462.4	24459.7	18898.7
30°	23127.9	23045.8	22603.9	21846.5	21284.7	20994.3	21493.0	22092.7	24503.9	25867.3	19567.8
32.5°	26536.4	25791.6	25191.9	24264.1	23348.8	22730.2	23222.5	23620.2	26233.5	27338.1	20300.0
35°	30216.4	29976.6	28941.4	27268.7	25867.3	25311.9	25602.2	25898.9	28247.0	29585.2	21530.9
37.5°	33833.3	33505.1	32652.9	31245.3	29541.0	28411.2	28619.5	28966.6	30506.8	32615.1	23033.2
40°	36433.9	36030.0	35600.7	35392.4	33700.8	32154.3	32034.4	32122.7	33561.9	35455.6	24699.6
42.5°	36623.3	37122.0	37254.5	38094.1	37696.4	36427.6	35689.1	35708.0	36478.1	38264.5	26384.9
45°	36225.6	35764.9	36743.2	39034.6	40347.5	40940.9	39697.4	39539.5	38283.4	39893.0	27224.5
47.5°	32053.3	32179.5	33833.3	37456.5	41250.1	43901.3	43610.9	43087.0	39249.2	39836.2	27091.9
50°	25337.1	26100.9	27634.8	32148.0	38725.3	44368.4	46079.0	44867.0	38674.8	38270.8	25741.1
52.5°	16872.5	17188.1	18198.0	24024.2	31138.0	39659.5	43238.5	43516.2	38144.6	36219.3	24030.5
55°	7511.5	7486.3	8906.5	12548.6	19536.2	30178.6	35329.3	37021.0	36105.7	34130.0	22364.1
57.5°	3181.3	3288.7	3869.4	5422.2	9607.2	18210.7	23935.8	25419.2	27767.3	28026.1	17156.5
60°	2152.5	2165.1	2322.9	2714.2	4020.9	8553.0	12554.9	14335.0	16014.0	15900.4	9102.2
62.5°	1691.7	1735.9	1855.8	2013.6	2386.0	3882.0	5617.8	6608.9	6716.2	5649.4	3452.8
65°	1445.5	1451.8	1571.7	1704.3	1868.4	2259.8	2707.9	2758.4	2790.0	2689.0	2537.5
67.5°	1193.0	1205.6	1300.3	1451.8	1603.3	1729.5	1855.8	1918.9	2064.1	2348.1	2310.3
70°	946.8	965.8	1047.8	1174.1	1312.9	1388.7	1546.5	1603.3	1735.9	1956.8	2045.1
72.5°	719.6	725.9	795.3	883.7	1010.0	1085.7	1218.3	1281.4	1369.7	1559.1	1641.2
75°	517.6	536.5	587.0	631.2	650.2	700.7	826.9	896.3	1022.6	1104.6	1110.9
77.5°	271.4	284.0	296.7	296.7	359.8	454.5	536.5	574.4	662.8	725.9	694.3
80°	107.3	113.6	145.2	195.7	252.5	328.2	385.0	404.0	479.7	517.6	536.5
82.5°	63.1	69.4	94.7	138.9	183.1	233.6	277.7	296.7	347.2	391.4	404.0
85°	31.6	37.9	56.8	88.4	119.9	145.2	138.9	132.6	132.6	126.2	132.6
87.5°	12.6	12.6	18.9	18.9	18.9	25.2	31.6	31.6	31.6	37.9	37.9
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°	14764.2	14764.2	14764.2	14764.2	14764.2	14764.2	14764.2	14764.2	14764.2	14764.2	14764.2
2.5°	14783.1	14530.7	14297.1	13867.9	13400.8	13268.2	12725.4	12529.7	12390.8	12226.7	12176.2
5°	14858.9	14524.3	13773.2	12908.4	12220.4	11336.7	10756.0	10131.1	9676.6	9563.0	9531.4
7.5°	15016.7	14442.3	13148.3	11841.7	10434.0	9234.7	8319.5	7827.1	7391.6	7366.3	7322.1
10°	15193.4	14196.1	12466.6	10415.1	8616.1	7505.2	6956.0	6741.4	6634.1	6608.9	6596.2
12.5°	15338.6	14145.6	11702.8	9026.4	7328.5	6659.4	6495.2	6476.3	6520.5	6533.1	6558.4
15°	15401.7	13943.6	10781.2	7782.9	6526.8	6280.6	6350.1	6425.8	6457.4	6539.4	6476.3
17.5°	15521.7	13684.8	9645.0	6798.2	6078.6	6122.8	6242.8	6331.1	6381.6	6438.4	6356.4
20°	15584.8	13451.3	8578.3	6211.2	5920.8	6002.9	6167.0	6236.4	6299.6	6324.8	6230.1
22.5°	15528.0	12971.5	7637.7	5737.8	5769.3	5876.6	6021.8	6097.6	6059.7	5958.7	5901.9
25°	15376.5	12296.1	6659.4	5434.8	5554.7	5744.1	5857.7	5800.9	5731.5	5674.7	5655.7
27.5°	15370.2	11469.2	5952.4	5157.1	5371.7	5630.5	5592.6	5542.1	5573.7	5529.5	5479.0
30°	15401.7	10667.6	5371.7	4999.3	5239.1	5365.4	5409.5	5359.0	5396.9	5314.9	5340.1
32.5°	15237.6	9884.9	4992.9	4816.2	5081.3	5075.0	5220.2	5258.1	5169.7	4999.3	5024.5
35°	15307.1	9253.7	4671.0	4734.1	4904.6	4904.6	5018.2	4974.0	4740.5	4639.5	4664.7
37.5°	15786.8	8635.1	4513.2	4620.5	4734.1	4784.6	4746.8	4557.4	4500.6	4500.6	4513.2
40°	16241.3	8104.8	4418.5	4595.3	4576.3	4607.9	4330.2	4349.1	4349.1	4355.4	4323.8
42.5°	16645.2	7745.1	4342.8	4443.8	4475.3	4311.2	4140.8	4121.9	4166.0	4159.7	4134.5
45°	16790.4	7448.4	4235.5	4273.4	4298.6	4027.2	3945.1	3907.2	3957.7	3976.7	4001.9
47.5°	16234.9	7202.2	4115.5	4039.8	3989.3	3812.6	3705.3	3635.8	3698.9	3806.2	3831.5
50°	15521.7	6880.3	3926.2	3781.0	3673.7	3597.9	3522.2	3452.8	3497.0	3572.7	3553.8
52.5°	14467.5	6375.3	3686.3	3534.8	3351.8	3370.7	3301.3	3263.4	3288.7	3288.7	3269.7
55°	12965.2	5239.1	3282.3	3175.0	3023.5	3074.0	3086.7	3036.2	2985.7	3029.9	2992.0
57.5°	8849.7	3698.9	2928.9	2928.9	2777.4	2846.8	2840.5	2720.6	2600.6	2613.2	2588.0
60°	5119.2	2947.8	2701.6	2676.4	2518.6	2575.4	2588.0	2505.9	2322.9	2335.5	2310.3
62.5°	2909.9	2518.6	2360.8	2322.9	2291.3	2341.8	2341.8	2234.5	2076.7	2089.3	2064.1
65°	2474.4	2335.5	2108.3	2102.0	2089.3	2102.0	2051.5	1937.8	1799.0	1742.2	1748.5
67.5°	2247.1	2158.8	1937.8	1881.0	1843.2	1836.8	1742.2	1634.9	1571.7	1521.2	1514.9
70°	1969.4	1900.0	1735.9	1660.1	1622.2	1533.9	1439.2	1369.7	1281.4	1256.1	1281.4
72.5°	1559.1	1552.8	1489.7	1407.6	1325.6	1256.1	1174.1	1079.4	997.3	978.4	934.2
75°	1079.4	1092.0	1104.6	1092.0	1022.6	934.2	839.5	763.8	662.8	606.0	593.3
77.5°	707.0	725.9	744.8	719.6	675.4	593.3	530.2	435.5	359.8	315.6	309.3
80°	517.6	542.8	555.5	536.5	486.0	422.9	353.5	277.7	220.9	183.1	183.1
82.5°	397.7	422.9	435.5	404.0	353.5	303.0	252.5	195.7	151.5	119.9	113.6
85°	138.9	132.6	157.8	164.1	195.7	183.1	151.5	113.6	88.4	63.1	56.8
87.5°	37.9	37.9	44.2	44.2	37.9	31.6	31.6	31.6	25.2	18.9	18.9
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)