

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: P647167

Luminaire Tested: **GALN-SA9C-835-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647167
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-835-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41049.6 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

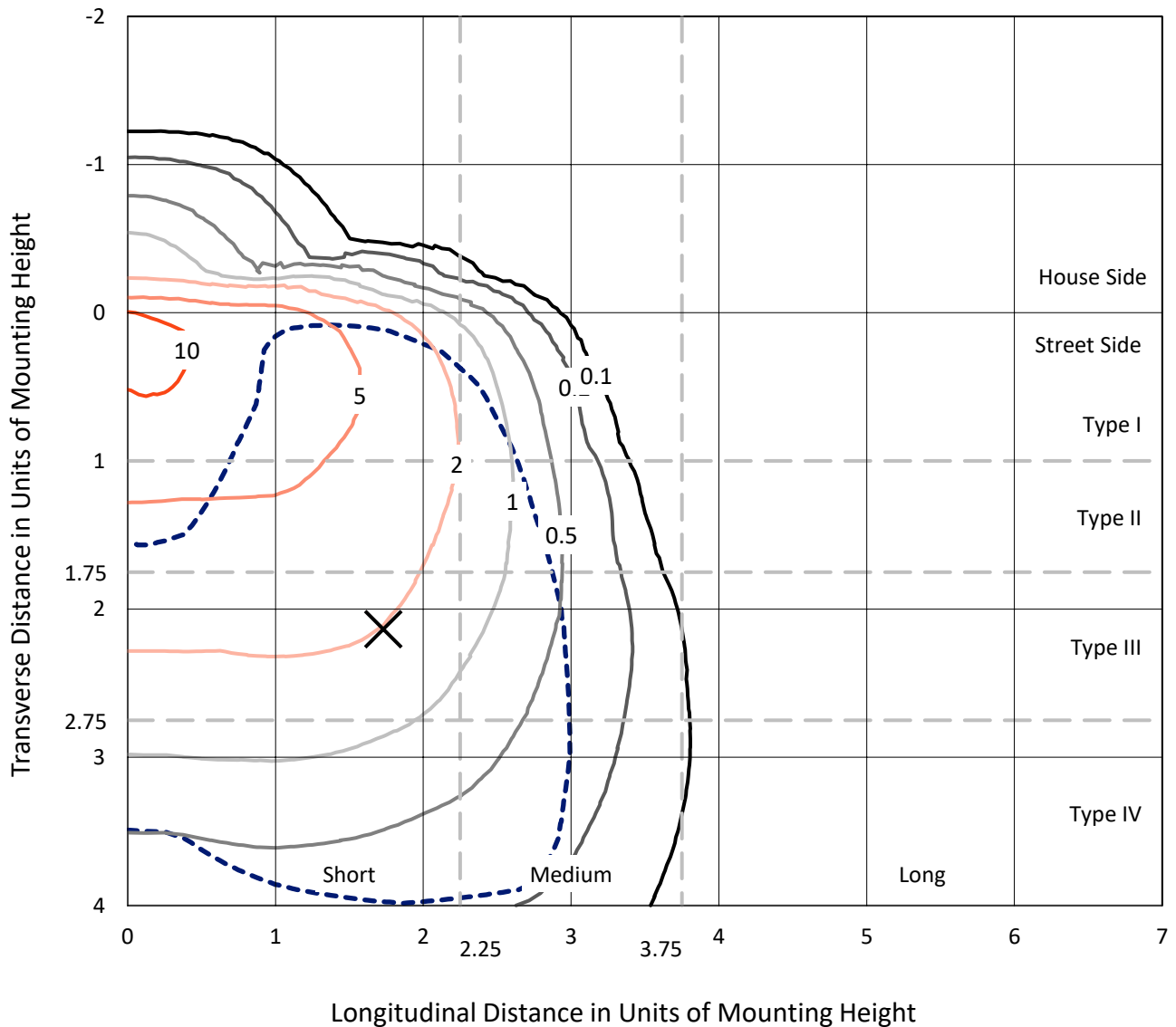
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

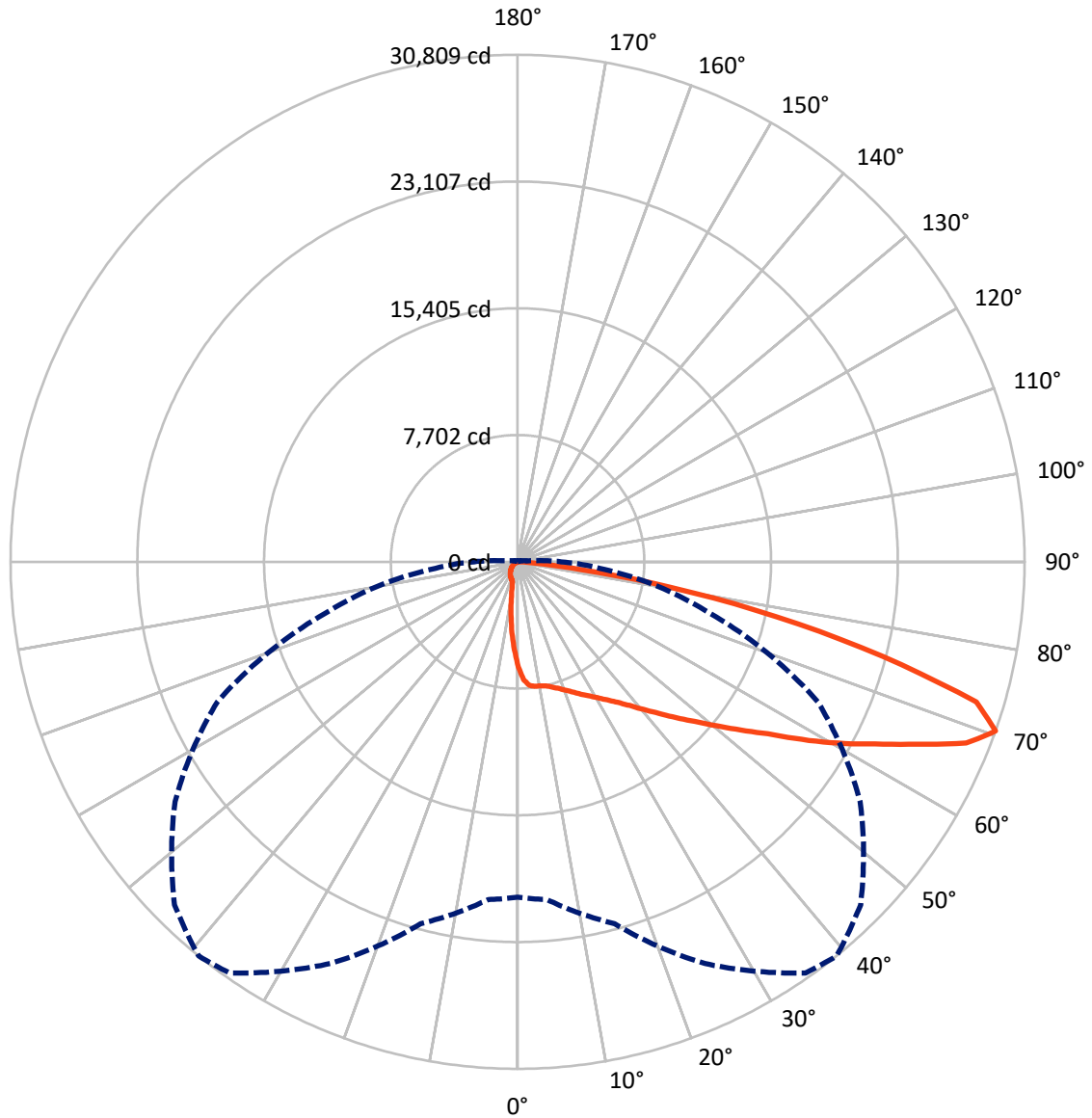
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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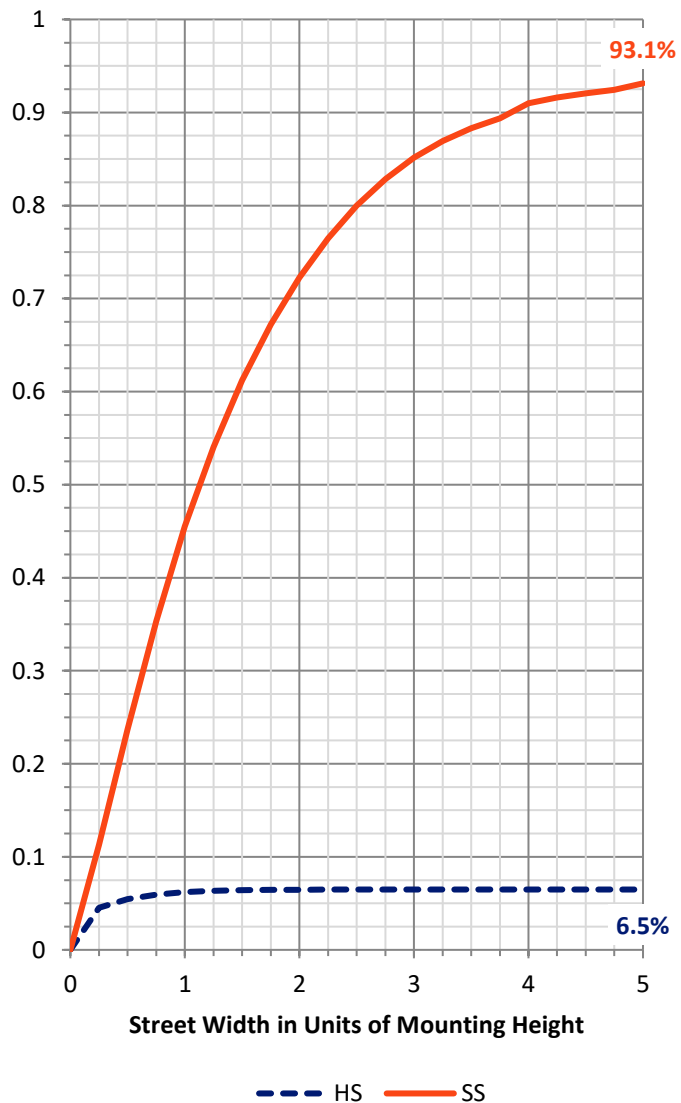
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2676.6	0.0	2676.6
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	38372.9	0.0	38372.9
	% Fixture	93.5	0.0	93.5
Total	Lumens	41049.6	0.0	41049.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	546.3	1.3
10°-20°	1419.7	3.5
20°-30°	2378.4	5.8
30°-40°	3688.6	9.0
40°-50°	5845.3	14.2
50°-60°	8568.4	20.9
60°-70°	10982.6	26.8
70°-80°	6901.1	16.8
80°-90°	718.9	1.8
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°	41049.6	100.0
0°-180°	41049.6	100.0

Coefficient of Utilization



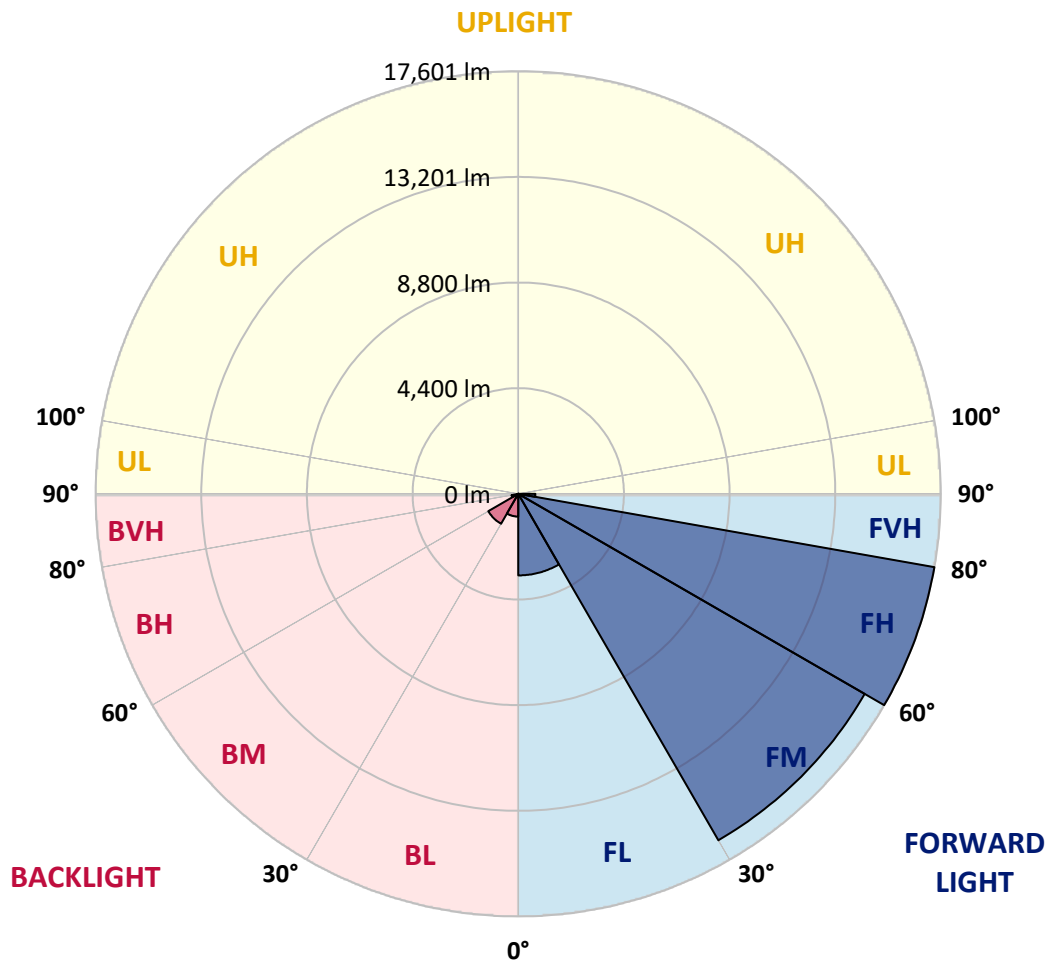
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3396.6	8.3			
FM (30°-60°)	16661.9	40.6			
FH (60°-80°)	17600.7	42.9			G5
FVH (80°-90°)	713.7	1.7			G4/750
BL (0°-30°)	947.8	2.3	B2/1000		
BM (30°-60°)	1440.5	3.5	B2/2500		
BH (60°-80°)	283.1	0.7	B1/500		G1/500
BVH (80°-90°)	5.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	6405.2	6405.2	6405.2	6405.2	6405.2	6405.2	6405.2	6405.2	6405.2	6405.2	6405.2
2.5°	7400.9	7376.1	7343.1	7304.4	7194.0	7174.8	7108.5	6967.8	6799.6	6661.7	6471.3
5°	7751.2	7765.1	7740.3	7671.3	7591.3	7544.4	7461.6	7243.7	7025.8	6747.2	6435.5
7.5°	7831.3	7858.8	7828.5	7762.3	7685.1	7635.4	7569.2	7381.7	7127.9	6810.6	6383.1
10°	7823.0	7856.1	7836.8	7776.1	7712.6	7665.7	7594.0	7445.1	7240.9	6907.2	6399.6
12.5°	7809.2	7853.3	7850.6	7820.2	7767.8	7732.0	7687.8	7555.4	7365.1	7047.9	6490.7
15°	7770.6	7825.8	7875.4	7900.2	7903.0	7903.0	7847.8	7707.1	7525.1	7232.6	6609.3
17.5°	7787.1	7850.6	7974.7	8046.4	8096.1	8090.6	8032.6	7880.9	7679.6	7423.0	6733.4
20°	7889.2	7974.7	8148.4	8291.9	8341.6	8325.0	8247.8	8071.2	7842.3	7585.8	6854.8
22.5°	8140.2	8217.4	8435.3	8603.6	8639.5	8595.4	8485.0	8245.1	8038.1	7762.3	7001.0
25°	8515.4	8606.4	8807.7	8934.7	8934.7	8909.8	8755.3	8474.0	8258.8	8007.8	7191.3
27.5°	8970.5	9047.7	9246.4	9359.4	9293.3	9221.5	9067.1	8727.8	8520.8	8316.7	7420.3
30°	9431.2	9480.8	9690.5	9740.1	9671.1	9580.2	9414.6	9075.4	8893.2	8736.0	7751.2
32.5°	9867.0	9974.6	10148.4	10137.3	10043.5	9999.4	9847.7	9486.4	9384.3	9367.7	8214.7
35°	10302.9	10385.6	10540.0	10578.7	10496.0	10487.7	10377.3	10109.8	10112.5	10220.1	8937.4
37.5°	10678.0	10752.5	10934.5	11020.0	11036.6	11078.0	11033.8	10857.3	11108.3	11403.5	9894.6
40°	10992.5	11097.3	11329.0	11477.9	11649.0	11800.7	11809.0	11847.6	12352.4	12859.9	11144.2
42.5°	11237.9	11384.2	11720.6	11996.5	12388.2	12581.3	12735.8	12948.2	13797.8	14556.4	12617.2
45°	11557.9	11726.2	12145.5	12578.6	13191.0	13508.2	13723.3	14291.6	15497.0	16531.4	14128.8
47.5°	12087.6	12175.8	12603.4	13235.0	14040.5	14492.9	14912.2	15772.8	17320.4	18247.2	15386.7
50°	12768.9	12826.8	13149.5	14026.7	15069.5	15665.2	16429.4	17441.7	19212.6	19670.5	16098.3
52.5°	13521.9	13541.3	13784.0	14898.5	16222.5	16972.8	17827.9	19077.5	20754.7	20685.7	16570.1
55°	14396.4	14368.8	14575.7	15844.6	17587.9	18445.8	19441.6	20751.8	22092.5	21405.7	16840.4
57.5°	15397.7	15323.2	15524.6	17099.7	19336.8	20362.9	21375.3	22197.3	23129.7	22009.7	16970.0
60°	16445.9	16297.0	16537.0	18509.3	21397.4	22371.1	23212.4	23433.1	24222.0	22489.7	16746.6
62.5°	17281.7	17284.5	17731.3	20009.9	23515.8	24368.2	24815.1	25013.7	25162.6	22384.9	15571.5
65°	18586.5	18630.6	19345.0	22092.5	25968.1	26707.4	27013.6	26368.1	25204.1	21082.9	13806.1
67.5°	19932.6	20073.3	21380.8	24961.3	28801.1	29396.9	29002.4	26630.1	24078.6	18112.0	10468.3
70°	20371.2	20602.9	22757.3	26936.4	30500.3	30809.2	29474.2	25408.2	20128.5	12109.6	5268.7
72.5°	18666.5	19041.6	21965.6	26216.4	29416.2	29148.7	26370.9	21309.1	12796.5	4598.3	1608.2
75°	13163.3	13328.9	18255.5	21747.7	23659.3	22900.7	20059.5	13737.1	5263.2	1290.9	551.7
77.5°	6796.8	6716.8	10857.3	14429.5	16873.5	16087.4	13135.8	7111.3	1994.4	537.9	342.0
80°	3514.3	3572.2	4697.7	7561.0	10300.1	9478.1	7003.7	3296.4	1062.0	297.9	262.1
82.5°	1969.6	1848.2	2700.6	3301.9	4816.2	3776.3	2686.7	2333.7	463.5	179.3	248.3
85°	358.6	375.1	1481.3	1784.7	1671.6	1062.0	866.2	1558.6	135.1	99.3	173.7
87.5°	5.5	5.5	286.9	513.1	325.5	148.9	273.1	223.5	27.6	38.6	30.4
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°	6405.2	6405.2	6405.2	6405.2	6405.2	6405.2	6405.2	6405.2	6405.2	6405.2	6405.2
2.5°	6374.8	6270.0	6074.1	5881.0	5635.6	5434.2	5299.0	5158.3	5014.9	5025.9	5059.0
5°	6264.5	6082.4	5696.2	5288.0	4896.3	4543.2	4195.6	3883.9	3757.0	3641.2	3646.7
7.5°	6154.1	5897.6	5332.1	4692.1	4099.1	3497.7	3061.9	2703.3	2513.0	2369.5	2328.2
10°	6104.5	5765.2	4998.4	4118.3	3277.0	2620.5	2060.5	1768.2	1542.0	1470.2	1489.6
12.5°	6126.5	5699.0	4697.7	3599.8	2598.5	1826.1	1434.4	1285.5	1235.8	1227.5	1222.0
15°	6167.9	5652.1	4402.5	3026.1	1908.9	1357.2	1205.4	1177.9	1172.3	1166.8	1169.6
17.5°	6223.0	5610.7	4088.0	2488.1	1464.8	1186.2	1142.0	1128.2	1125.5	1125.5	1125.5
20°	6278.3	5563.8	3737.7	2008.2	1222.0	1119.9	1092.4	1084.1	1081.3	1081.3	1078.6
22.5°	6341.7	5522.4	3381.9	1577.8	1125.5	1073.0	1048.2	1042.7	1039.9	1037.2	1037.2
25°	6432.7	5470.0	3004.0	1290.9	1064.8	1028.9	1004.0	998.6	995.8	984.8	987.5
27.5°	6554.1	5431.4	2615.0	1114.4	1009.6	973.7	957.2	948.9	943.4	935.1	937.9
30°	6719.6	5398.3	2201.2	1017.9	946.2	915.8	899.3	893.7	888.2	879.9	879.9
32.5°	7006.5	5412.1	1765.4	940.6	888.2	852.4	835.8	830.3	824.8	816.5	816.5
35°	7436.8	5492.1	1412.3	874.5	819.3	783.4	766.9	766.9	758.6	747.5	744.8
37.5°	8140.2	5696.2	1133.7	811.0	753.1	720.0	700.6	695.1	686.8	670.3	667.6
40°	8970.5	6013.4	954.4	747.5	692.4	659.3	642.7	626.2	604.1	587.6	584.8
42.5°	10013.2	6338.9	827.6	684.1	634.5	604.1	584.8	557.2	524.1	502.1	499.3
45°	11100.0	6636.9	742.0	626.2	579.3	554.4	532.4	488.3	446.9	419.3	416.6
47.5°	11911.0	6692.0	673.1	571.0	532.4	507.5	477.2	422.0	366.9	342.0	333.8
50°	12294.4	6424.4	601.3	515.8	485.5	457.9	419.3	355.9	295.2	264.8	259.3
52.5°	12429.6	5961.1	543.4	466.2	438.6	405.5	358.6	286.9	231.7	201.4	198.6
55°	12374.5	5376.2	491.0	419.3	383.4	344.8	297.9	228.9	171.0	146.2	140.7
57.5°	12084.8	4631.4	438.6	372.4	328.2	289.6	237.2	171.0	115.9	93.8	91.1
60°	11304.2	3616.4	386.2	320.0	278.6	237.2	187.6	121.4	71.7	52.4	52.4
62.5°	9985.6	2684.0	336.5	267.6	234.4	190.3	132.4	77.2	38.6	27.6	24.8
65°	8344.4	1980.6	281.3	226.2	195.8	148.9	93.8	46.9	19.3	8.3	5.5
67.5°	5823.1	1222.0	234.4	184.8	160.0	107.6	57.9	19.3	8.3	0.0	0.0
70°	2645.4	582.0	179.3	140.7	121.4	77.2	30.4	11.0	5.5	0.0	0.0
72.5°	822.0	306.2	126.9	102.0	82.8	49.6	16.5	8.3	5.5	0.0	0.0
75°	380.7	195.8	80.0	55.2	46.9	24.8	11.0	5.5	2.7	0.0	0.0
77.5°	284.2	151.7	46.9	30.4	24.8	16.5	8.3	5.5	2.7	0.0	0.0
80°	248.3	77.2	27.6	19.3	13.8	11.0	5.5	2.7	0.0	0.0	0.0
82.5°	223.5	38.6	16.5	11.0	8.3	5.5	2.7	2.7	0.0	0.0	0.0
85°	121.4	22.1	11.0	8.3	5.5	2.7	2.7	0.0	0.0	0.0	0.0
87.5°	22.1	11.0	8.3	5.5	5.5	2.7	2.7	2.7	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)