

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: P648597

Luminaire Tested: **GALN-SA8B-835-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648597
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-SA8B-835-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 800mA 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: 29594.3 lumens
Efficiency: N/A
Efficacy: 91.1 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

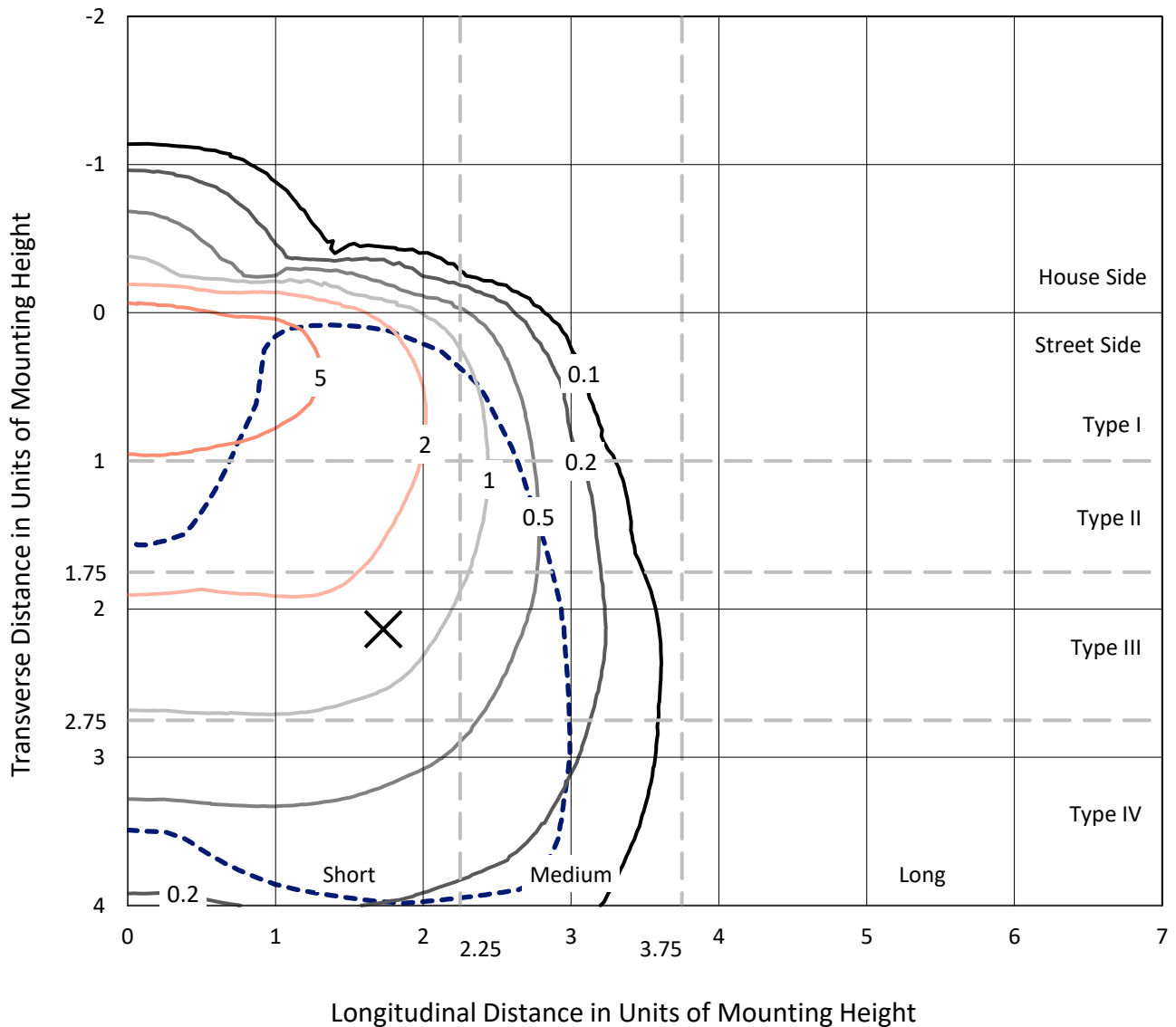
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

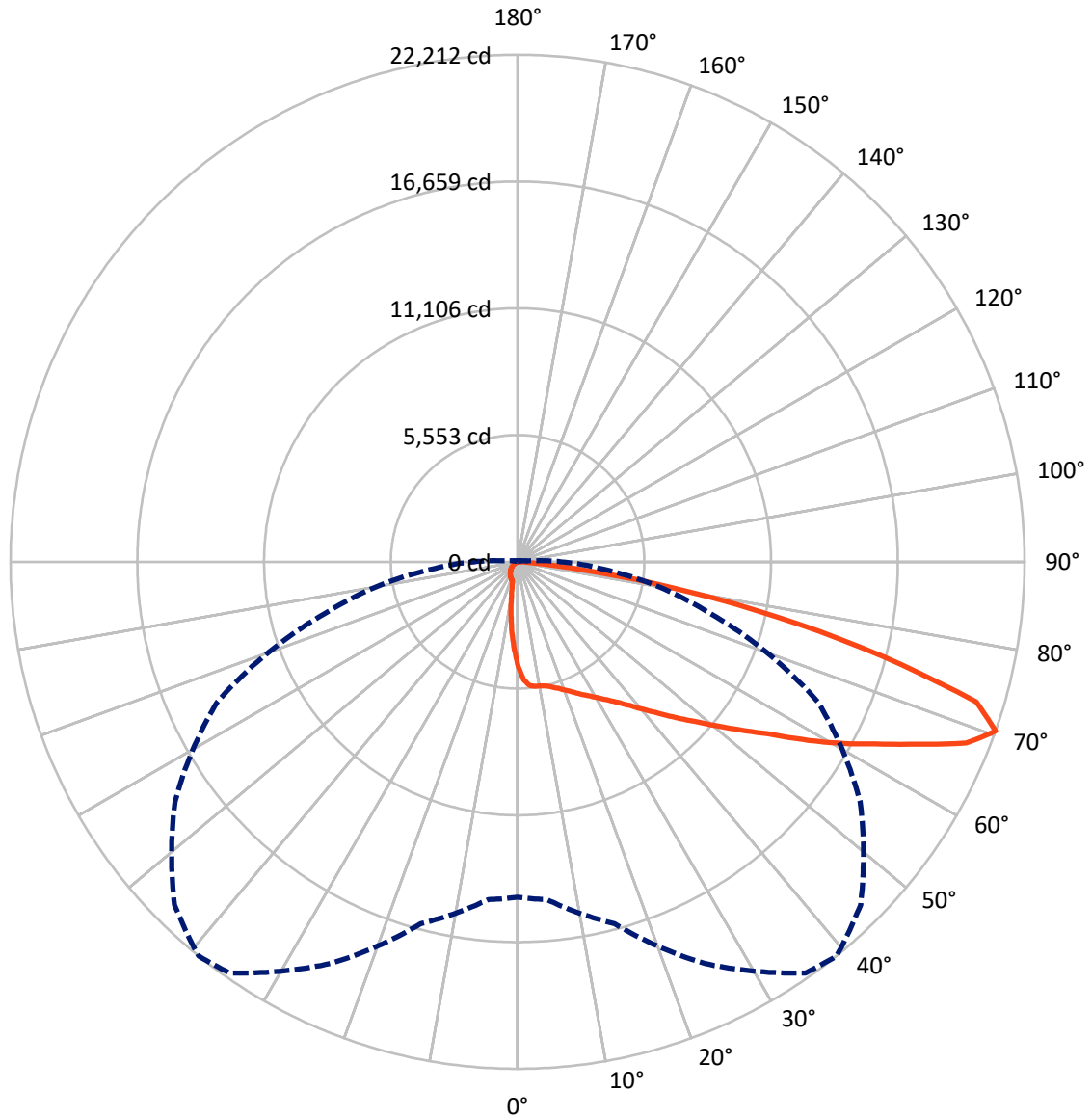
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 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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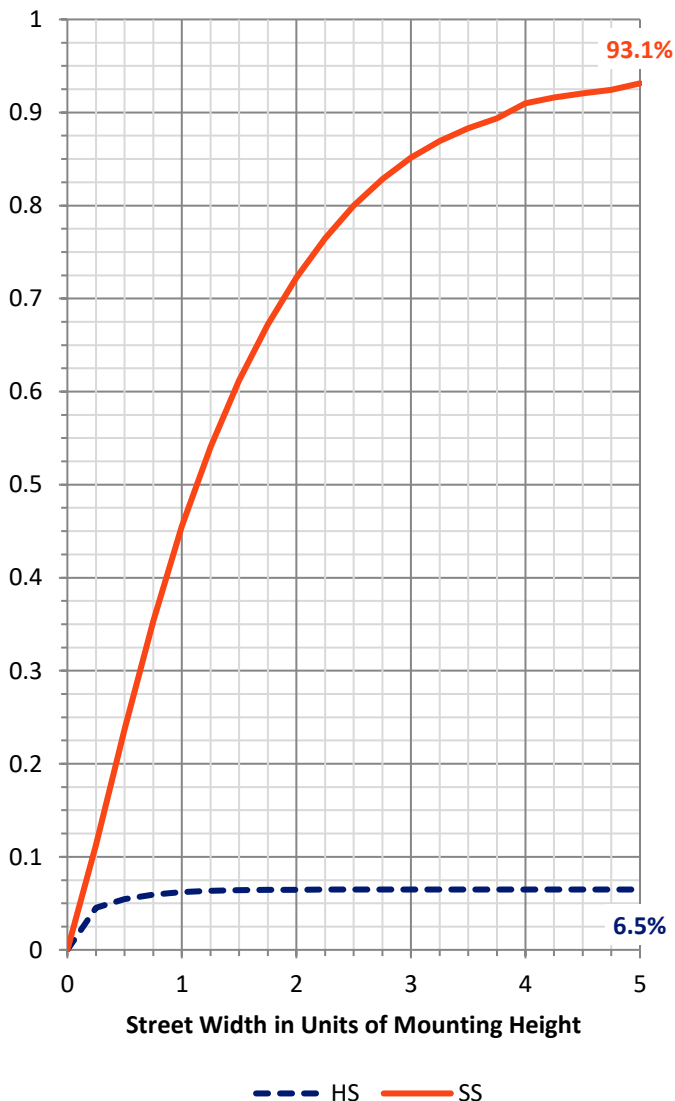
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1929.7	0.0	1929.7
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	27664.6	0.0	27664.6
	% Fixture	93.5	0.0	93.5
Total	Lumens	29594.3	0.0	29594.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	393.9	1.3
10°-20°	1023.5	3.5
20°-30°	1714.7	5.8
30°-40°	2659.3	9.0
40°-50°	4214.1	14.2
50°-60°	6177.3	20.9
60°-70°	7917.8	26.8
70°-80°	4975.3	16.8
80°-90°	518.3	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°	29594.3	100.0
0°-180°	29594.3	100.0

Coefficient of Utilization

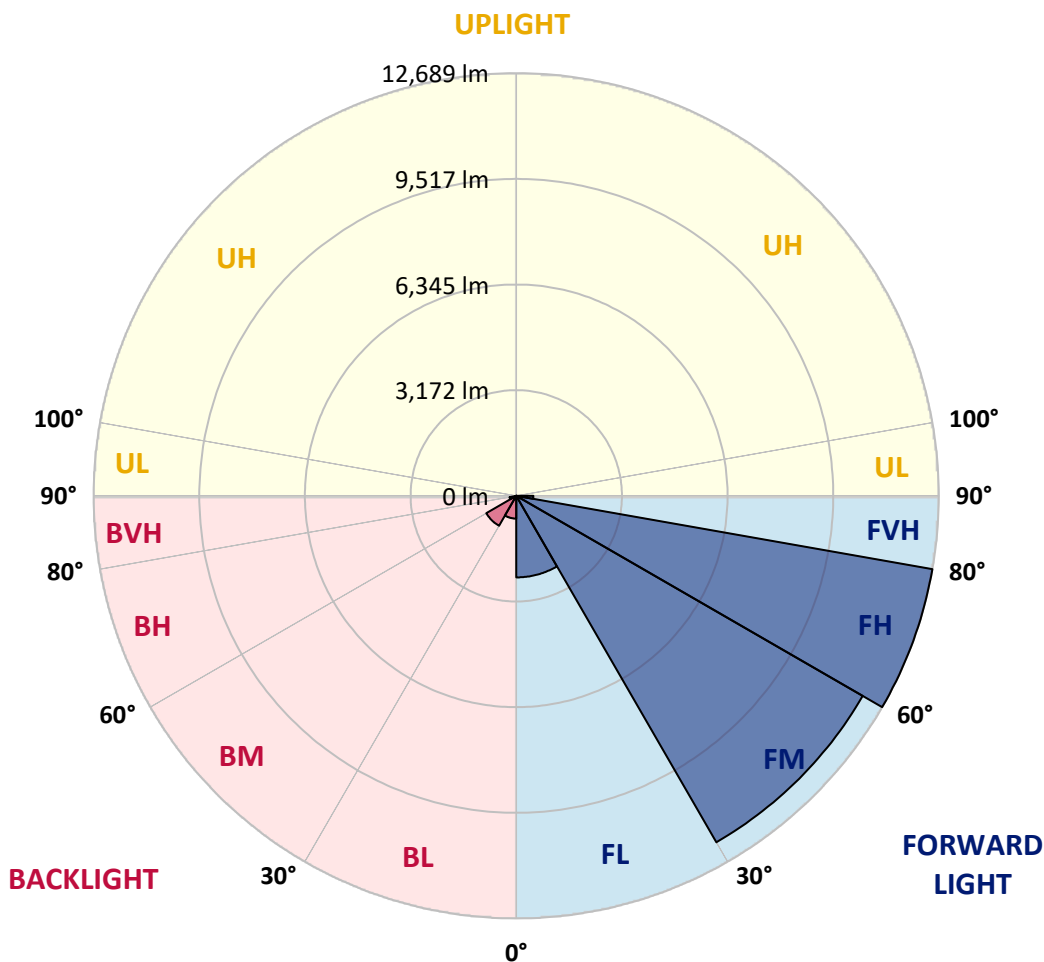


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2448.8	8.3			
FM (30°-60°)	12012.2	40.6			
FH (60°-80°)	12689.1	42.9			G5
FVH (80°-90°)	514.5	1.7			G4/750
BL (0°-30°)	683.3	2.3	B2/1000		
BM (30°-60°)	1038.5	3.5	B2/2500		
BH (60°-80°)	204.1	0.7	B1/500		G1/500
BVH (80°-90°)	3.8	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°	4617.7	4617.7	4617.7	4617.7	4617.7	4617.7	4617.7	4617.7	4617.7	4617.7	4617.7
2.5°	5335.6	5317.7	5293.9	5266.1	5186.5	5172.6	5124.8	5023.4	4902.1	4802.7	4665.4
5°	5588.2	5598.1	5580.2	5530.6	5472.9	5439.0	5379.4	5222.3	5065.1	4864.3	4639.6
7.5°	5645.9	5665.8	5643.9	5596.2	5540.5	5504.6	5457.0	5321.7	5138.8	4910.0	4601.8
10°	5639.9	5663.8	5649.8	5606.1	5560.3	5526.6	5474.8	5367.5	5220.3	4979.6	4613.7
12.5°	5629.9	5661.8	5659.8	5637.9	5600.1	5574.3	5542.5	5447.0	5309.8	5081.1	4679.4
15°	5602.1	5641.9	5677.7	5695.6	5697.6	5697.6	5657.8	5556.4	5425.1	5214.3	4764.9
17.5°	5614.0	5659.8	5749.3	5801.0	5836.8	5832.8	5791.1	5681.7	5536.5	5351.6	4854.4
20°	5687.6	5749.3	5874.5	5978.0	6013.8	6001.9	5946.2	5818.9	5653.8	5468.9	4941.9
22.5°	5868.6	5924.3	6081.4	6202.7	6228.5	6196.7	6117.2	5944.1	5795.0	5596.2	5047.3
25°	6139.0	6204.7	6349.9	6441.3	6441.3	6423.4	6312.1	6109.2	5954.1	5773.1	5184.5
27.5°	6467.2	6522.9	6666.1	6747.6	6699.9	6648.1	6536.8	6292.2	6143.0	5995.9	5349.5
30°	6799.3	6835.1	6986.2	7022.0	6972.3	6906.7	6787.4	6542.7	6411.5	6298.1	5588.2
32.5°	7113.6	7191.1	7316.4	7308.4	7240.8	7209.0	7099.6	6839.1	6765.5	6753.5	5922.3
35°	7427.7	7487.4	7598.8	7626.6	7566.9	7561.0	7481.4	7288.6	7290.5	7368.0	6443.3
37.5°	7698.2	7751.9	7883.2	7944.8	7956.7	7986.5	7954.7	7827.4	8008.4	8221.2	7133.4
40°	7924.9	8000.5	8167.6	8274.9	8398.2	8507.6	8513.6	8541.4	8905.3	9271.3	8034.3
42.5°	8101.9	8207.3	8449.9	8648.8	8931.2	9070.4	9181.8	9334.8	9947.4	10494.3	9096.3
45°	8332.6	8453.9	8756.1	9068.4	9509.8	9738.6	9893.7	10303.3	11172.4	11918.2	10186.0
47.5°	8714.4	8778.1	9086.3	9541.7	10122.4	10448.5	10750.8	11371.3	12487.0	13155.1	11092.8
50°	9205.6	9247.4	9480.0	10112.4	10864.2	11293.8	11844.6	12574.4	13851.2	14181.3	11605.9
52.5°	9748.5	9762.4	9937.4	10740.9	11695.4	12236.3	12852.9	13753.7	14962.8	14913.1	11946.0
55°	10378.9	10359.0	10508.2	11423.0	12679.8	13298.3	14016.2	14960.9	15927.4	15432.1	12140.9
57.5°	11100.8	11047.1	11192.3	12327.9	13940.7	14680.5	15410.3	16003.0	16675.1	15867.7	12234.4
60°	11856.5	11749.1	11922.1	13344.0	15426.2	16128.2	16734.7	16893.9	17462.6	16213.7	12073.3
62.5°	12459.1	12461.1	12783.3	14425.9	16953.5	17568.0	17890.2	18033.4	18140.8	16138.2	11226.1
65°	13399.7	13431.6	13946.6	15927.4	18721.5	19254.4	19475.2	19009.8	18170.6	15199.5	9953.3
67.5°	14370.2	14471.6	15414.3	17995.6	20763.8	21193.4	20909.0	19198.8	17359.2	13057.7	7547.0
70°	14686.4	14853.4	16406.7	19419.5	21988.8	22211.6	21249.1	18317.7	14511.4	8730.3	3798.4
72.5°	13457.4	13727.9	15835.9	18900.4	21207.3	21014.4	19011.8	15362.5	9225.5	3315.1	1159.4
75°	9490.0	9609.3	13161.1	15678.8	17057.0	16510.0	14461.7	9903.6	3794.4	930.7	397.8
77.5°	4900.1	4842.5	7827.4	10402.8	12164.8	11598.0	9470.1	5126.8	1437.8	387.8	246.6
80°	2533.6	2575.4	3386.7	5451.0	7425.7	6833.1	5049.3	2376.5	765.6	214.8	188.9
82.5°	1419.9	1332.4	1946.9	2380.5	3472.2	2722.5	1937.0	1682.4	334.1	129.3	179.0
85°	258.5	270.4	1067.9	1286.7	1205.1	765.6	624.4	1123.6	97.5	71.6	125.3
87.5°	4.0	4.0	206.8	369.9	234.7	107.4	196.8	161.1	19.9	27.9	21.8
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°	4617.7	4617.7	4617.7	4617.7	4617.7	4617.7	4617.7	4617.7	4617.7	4617.7	4617.7
2.5°	4595.8	4520.3	4379.1	4239.9	4062.9	3917.7	3820.3	3718.9	3615.4	3623.4	3647.2
5°	4516.3	4385.0	4106.6	3812.3	3529.9	3275.4	3024.8	2800.1	2708.6	2625.1	2629.0
7.5°	4436.7	4251.8	3844.1	3382.7	2955.2	2521.7	2207.4	1948.9	1811.7	1708.3	1678.4
10°	4400.9	4156.3	3603.5	2969.1	2362.5	1889.2	1485.5	1274.7	1111.7	1059.9	1073.9
12.5°	4416.9	4108.6	3386.7	2595.3	1873.3	1316.5	1034.1	926.8	890.9	884.9	881.0
15°	4446.7	4074.8	3174.0	2181.6	1376.2	978.4	869.1	849.2	845.2	841.2	843.2
17.5°	4486.4	4045.0	2947.2	1793.8	1056.0	855.1	823.3	813.4	811.3	811.3	811.3
20°	4526.2	4011.2	2694.7	1447.8	881.0	807.4	787.5	781.6	779.6	779.6	777.6
22.5°	4572.0	3981.3	2438.1	1137.5	811.3	773.6	755.7	751.8	749.7	747.8	747.8
25°	4637.6	3943.6	2165.7	930.7	767.7	741.8	723.9	719.9	717.9	709.9	712.0
27.5°	4725.1	3915.7	1885.3	803.4	727.9	702.0	690.1	684.1	680.1	674.2	676.1
30°	4844.4	3891.8	1587.0	733.8	682.1	660.2	648.3	644.3	640.3	634.4	634.4
32.5°	5051.3	3901.8	1272.8	678.2	640.3	614.5	602.6	598.6	594.6	588.7	588.7
35°	5361.5	3959.5	1018.2	630.4	590.6	564.8	552.9	552.9	546.9	538.9	537.0
37.5°	5868.6	4106.6	817.4	584.7	542.9	519.1	505.1	501.1	495.2	483.3	481.2
40°	6467.2	4335.3	688.1	538.9	499.2	475.3	463.4	451.4	435.5	423.6	421.6
42.5°	7218.9	4570.0	596.6	493.2	457.4	435.5	421.6	401.7	377.9	361.9	359.9
45°	8002.5	4784.8	534.9	451.4	417.7	399.7	383.8	352.0	322.2	302.3	300.3
47.5°	8587.2	4824.5	485.2	411.6	383.8	365.9	344.1	304.3	264.5	246.6	240.6
50°	8863.6	4631.7	433.5	371.8	350.0	330.1	302.3	256.5	212.8	190.9	186.9
52.5°	8961.0	4297.6	391.7	336.1	316.2	292.4	258.5	206.8	167.0	145.2	143.2
55°	8921.3	3875.9	354.0	302.3	276.4	248.6	214.8	165.1	123.3	105.4	101.4
57.5°	8712.4	3339.0	316.2	268.5	236.6	208.8	171.0	123.3	83.5	67.7	65.6
60°	8149.6	2607.2	278.4	230.7	200.8	171.0	135.2	87.5	51.7	37.8	37.8
62.5°	7199.1	1934.9	242.7	192.9	169.0	137.2	95.4	55.7	27.9	19.9	17.9
65°	6015.8	1427.9	202.9	163.1	141.2	107.4	67.7	33.8	13.9	6.0	4.0
67.5°	4198.1	881.0	169.0	133.3	115.3	77.6	41.7	13.9	6.0	0.0	0.0
70°	1907.2	419.6	129.3	101.4	87.5	55.7	21.8	8.0	4.0	0.0	0.0
72.5°	592.7	220.7	91.5	73.6	59.7	35.8	11.9	6.0	4.0	0.0	0.0
75°	274.4	141.2	57.7	39.8	33.8	17.9	8.0	4.0	2.0	0.0	0.0
77.5°	204.8	109.4	33.8	21.8	17.9	11.9	6.0	4.0	2.0	0.0	0.0
80°	179.0	55.7	19.9	13.9	9.9	8.0	4.0	2.0	0.0	0.0	0.0
82.5°	161.1	27.9	11.9	8.0	6.0	4.0	2.0	2.0	0.0	0.0	0.0
85°	87.5	15.9	8.0	6.0	4.0	2.0	2.0	0.0	0.0	0.0	0.0
87.5°	15.9	8.0	6.0	4.0	4.0	2.0	2.0	2.0	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)