

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: P648652

Luminaire Tested: **GALN-SA9B-835-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648652
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-SA9B-835-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 33224.3 lumens
Efficiency: N/A
Efficacy: 91.3 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

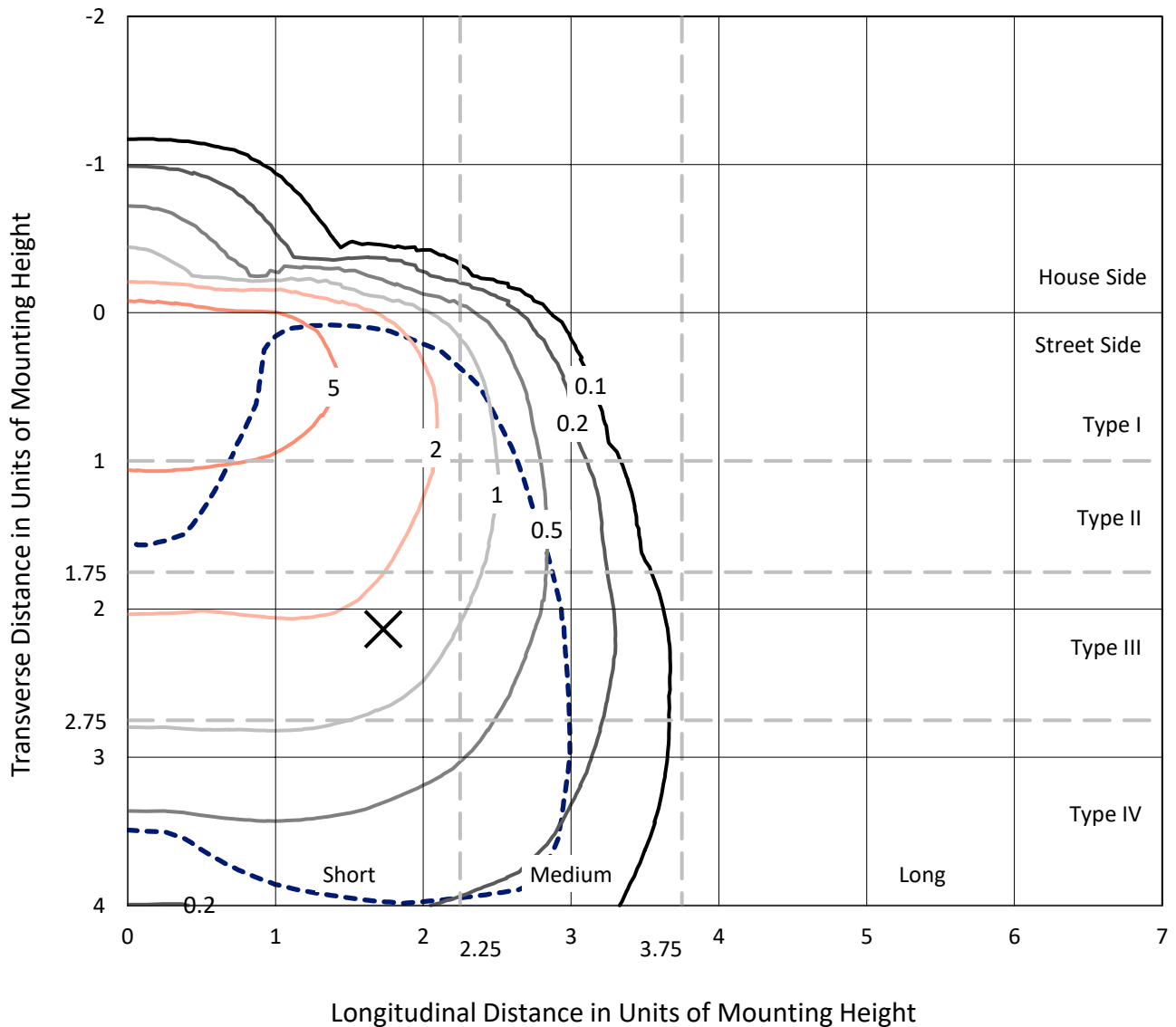
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

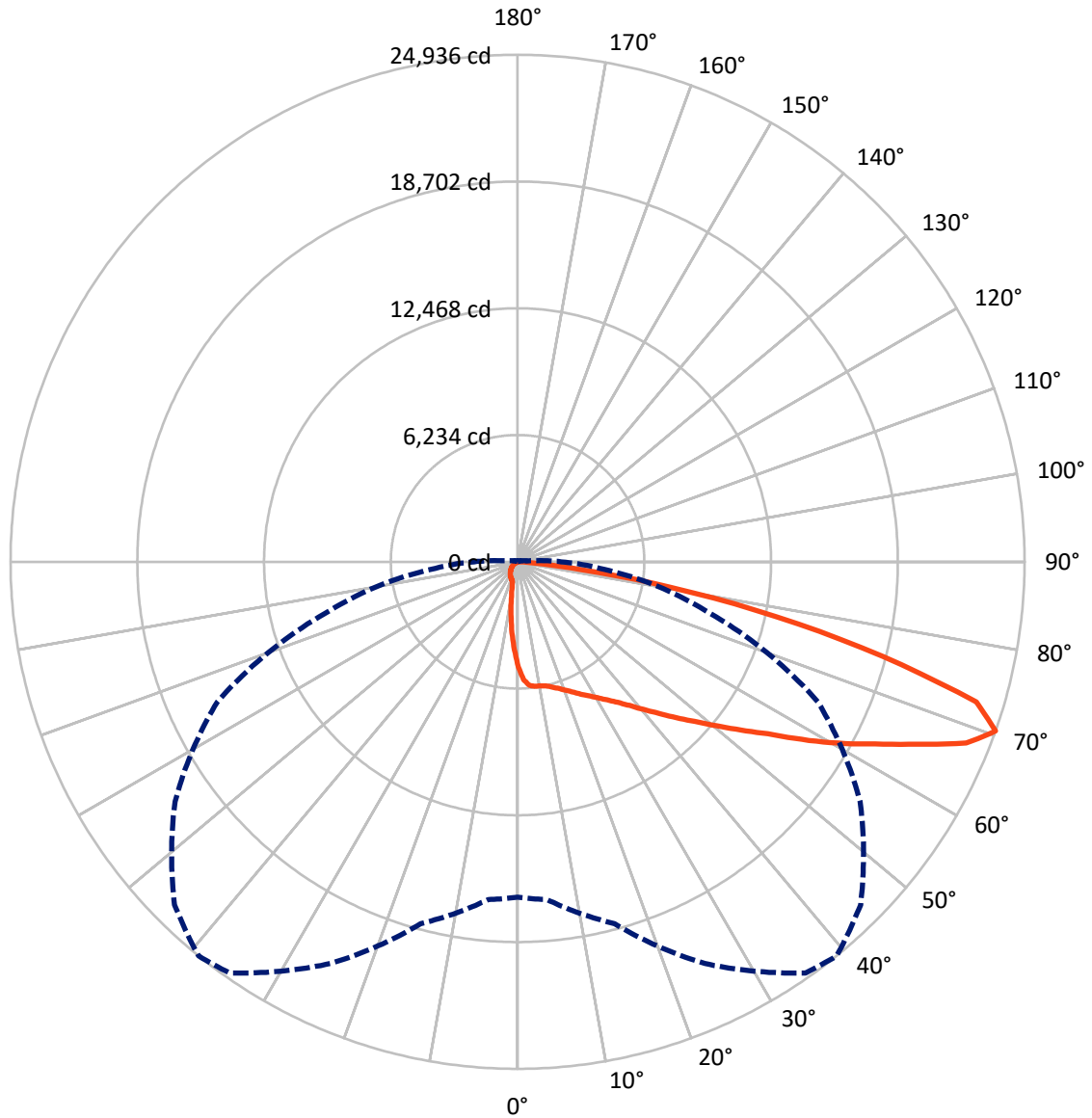
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 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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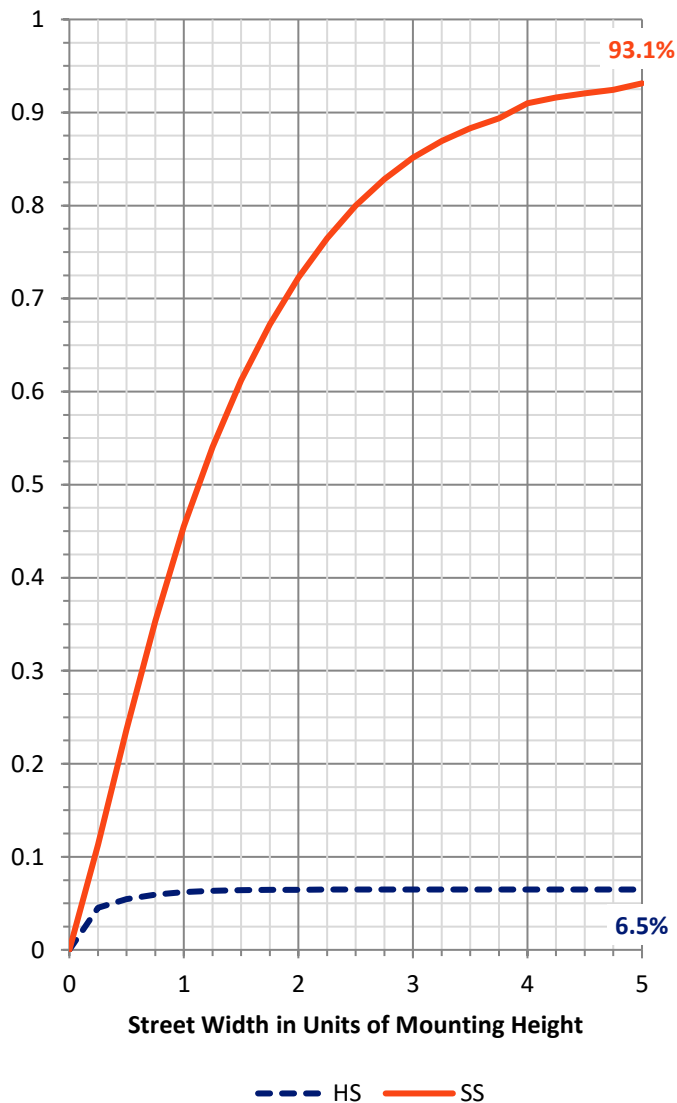
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2166.4	0.0	2166.4
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	31057.9	0.0	31057.9
	% Fixture	93.5	0.0	93.5
Total	Lumens	33224.3	0.0	33224.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.2	1.3
10°-20°	1149.1	3.5
20°-30°	1925.0	5.8
30°-40°	2985.5	9.0
40°-50°	4731.0	14.2
50°-60°	6935.0	20.9
60°-70°	8889.0	26.8
70°-80°	5585.6	16.8
80°-90°	581.9	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°	33224.3	100.0
0°-180°	33224.3	100.0

Coefficient of Utilization



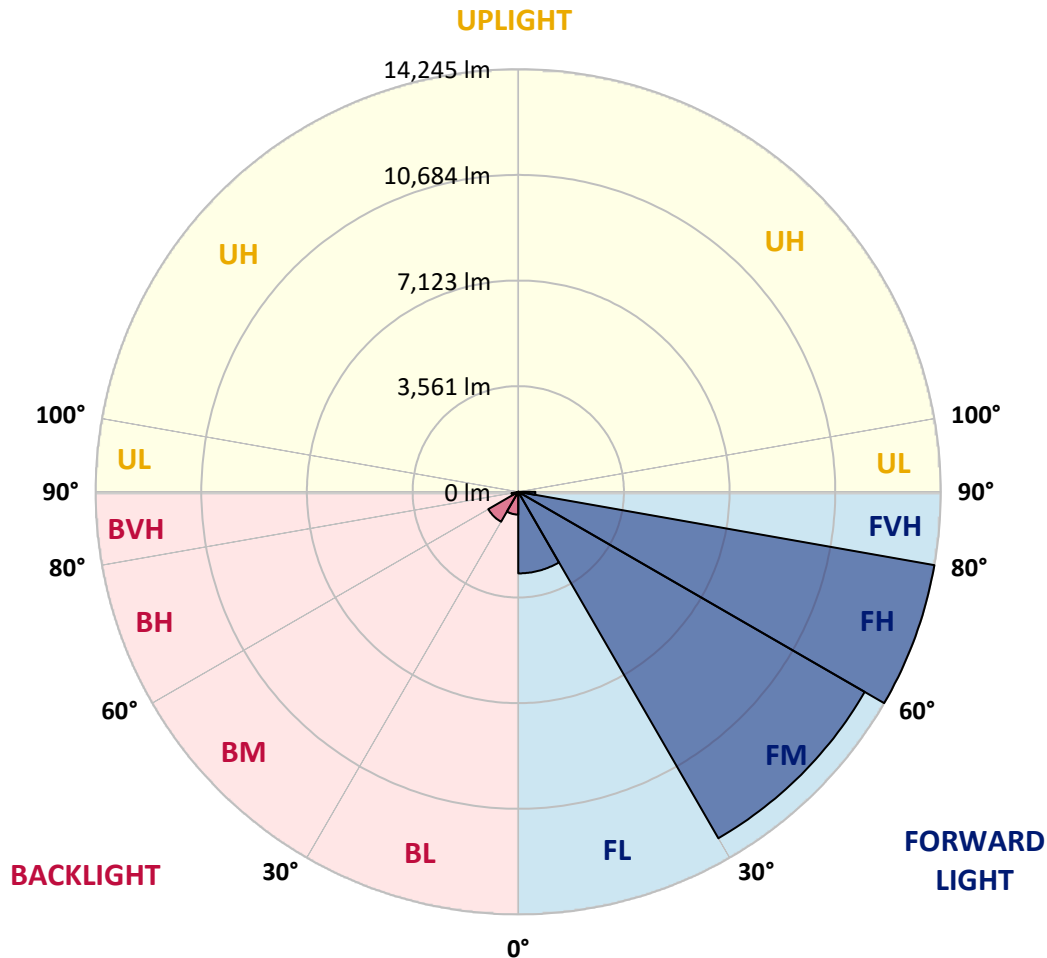
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2749.1	8.3			
FM (30°-60°)	13485.7	40.6			
FH (60°-80°)	14245.5	42.9			G5
FVH (80°-90°)	577.6	1.7			G4/750
BL (0°-30°)	767.1	2.3	B2/1000		
BM (30°-60°)	1165.9	3.5	B2/2500		
BH (60°-80°)	229.1	0.7	B1/500		G1/500
BVH (80°-90°)	4.3	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°	5184.1	5184.1	5184.1	5184.1	5184.1	5184.1	5184.1	5184.1	5184.1	5184.1	5184.1
2.5°	5990.1	5970.0	5943.2	5912.0	5822.6	5807.0	5753.4	5639.6	5503.4	5391.7	5237.7
5°	6273.6	6284.8	6264.7	6208.9	6144.1	6106.2	6039.2	5862.9	5686.5	5461.0	5208.7
7.5°	6338.4	6360.7	6336.1	6282.6	6220.1	6179.9	6126.3	5974.4	5769.1	5512.3	5166.2
10°	6331.7	6358.5	6342.8	6293.8	6242.4	6204.4	6146.4	6025.8	5860.6	5590.5	5179.6
12.5°	6320.5	6356.2	6354.0	6329.5	6287.0	6258.0	6222.3	6115.2	5961.1	5704.3	5253.3
15°	6289.3	6333.9	6374.1	6394.2	6396.4	6396.4	6351.8	6237.9	6090.6	5853.9	5349.3
17.5°	6302.7	6354.0	6454.5	6512.5	6552.7	6548.2	6501.3	6378.6	6215.6	6008.0	5449.8
20°	6385.3	6454.5	6595.1	6711.2	6751.4	6738.0	6675.5	6532.6	6347.3	6139.7	5548.0
22.5°	6588.5	6651.0	6827.3	6963.5	6992.5	6956.8	6867.5	6673.3	6505.8	6282.6	5666.3
25°	6892.0	6965.7	7128.7	7231.4	7231.4	7211.4	7086.3	6858.6	6684.5	6481.3	5820.4
27.5°	7260.4	7322.9	7483.7	7575.2	7521.7	7463.6	7338.6	7064.0	6896.5	6731.3	6005.7
30°	7633.3	7673.5	7843.2	7883.3	7827.6	7753.9	7619.9	7345.3	7198.0	7070.6	6273.6
32.5°	7986.1	8073.1	8213.7	8204.8	8128.9	8093.2	7970.4	7677.9	7595.3	7581.9	6648.7
35°	8338.8	8405.8	8530.8	8562.0	8495.1	8488.4	8399.1	8182.5	8184.8	8271.8	7233.7
37.5°	8642.4	8702.7	8850.1	8919.3	8932.7	8966.1	8930.4	8787.5	8990.7	9229.6	8008.4
40°	8897.0	8981.8	9169.3	9289.9	9428.3	9551.1	9557.8	9589.1	9997.7	10408.4	9019.8
42.5°	9095.6	9214.0	9486.4	9709.6	10026.6	10182.9	10308.0	10479.9	11167.5	11781.5	10212.0
45°	9354.7	9490.8	9830.2	10180.7	10676.4	10933.1	11107.2	11567.2	12542.8	13380.1	11435.4
47.5°	9783.3	9854.8	10200.8	10712.1	11364.0	11730.1	12069.5	12766.1	14018.6	14768.7	12453.5
50°	10334.7	10381.6	10642.8	11352.8	12196.8	12679.0	13297.5	14116.8	15550.1	15920.7	13029.5
52.5°	10944.2	10959.9	11156.3	12058.4	13130.0	13737.3	14429.4	15440.8	16798.2	16742.3	13411.3
55°	11652.0	11629.7	11797.1	12824.1	14235.1	14929.5	15735.5	16795.9	17881.0	17325.0	13630.1
57.5°	12462.5	12402.2	12565.1	13840.0	15650.6	16481.1	17300.5	17965.9	18720.4	17814.0	13735.0
60°	13310.8	13190.3	13384.5	14980.8	17318.4	18106.5	18787.5	18966.1	19604.6	18202.5	13554.2
62.5°	13987.3	13989.5	14351.2	16195.3	19033.0	19722.9	20084.6	20245.3	20365.9	18117.6	12603.1
65°	15043.3	15079.1	15657.3	17881.0	21017.8	21616.1	21863.9	21341.5	20399.3	17063.8	11174.2
67.5°	16132.9	16246.7	17305.0	20202.9	23310.7	23792.9	23473.7	21553.6	19488.5	14659.3	8472.8
70°	16487.9	16675.4	18419.1	21801.5	24686.0	24936.0	23855.4	20564.6	16291.3	9801.2	4264.3
72.5°	15108.1	15411.7	17778.2	21218.8	23808.6	23592.0	21343.8	17246.9	10357.1	3721.8	1301.6
75°	10654.0	10787.9	14775.4	17601.9	19149.1	18535.2	16235.6	11118.4	4259.8	1044.8	446.5
77.5°	5501.1	5436.4	8787.5	11678.8	13656.9	13020.6	10631.7	5755.7	1614.2	435.3	276.9
80°	2844.3	2891.2	3802.2	6119.6	8336.6	7671.3	5668.6	2668.0	859.6	241.1	212.1
82.5°	1594.1	1495.8	2185.7	2672.5	3898.2	3056.4	2174.5	1888.8	375.1	145.1	200.9
85°	290.3	303.6	1198.9	1444.5	1352.9	859.6	701.0	1261.4	109.4	80.3	140.6
87.5°	4.5	4.5	232.2	415.3	263.5	120.6	221.0	180.9	22.3	31.2	24.6
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°	5184.1	5184.1	5184.1	5184.1	5184.1	5184.1	5184.1	5184.1	5184.1	5184.1	5184.1
2.5°	5159.6	5074.7	4916.2	4759.9	4561.2	4398.3	4288.9	4175.0	4058.9	4067.8	4094.6
5°	5070.2	4922.9	4610.3	4279.9	3962.9	3677.1	3395.8	3143.5	3040.8	2947.1	2951.5
7.5°	4981.0	4773.3	4315.7	3797.7	3317.6	2830.9	2478.2	2187.9	2033.9	1917.8	1884.3
10°	4940.7	4666.1	4045.5	3333.3	2652.3	2121.0	1667.8	1431.1	1248.0	1190.0	1205.6
12.5°	4958.7	4612.6	3802.2	2913.5	2103.1	1478.0	1161.0	1040.4	1000.2	993.5	989.1
15°	4992.1	4574.6	3563.3	2449.1	1544.9	1098.5	975.6	953.3	948.8	944.4	946.6
17.5°	5036.8	4541.2	3308.7	2013.8	1185.5	960.0	924.3	913.1	910.9	910.9	910.9
20°	5081.4	4503.2	3025.2	1625.4	989.1	906.5	884.1	877.4	875.2	875.2	873.0
22.5°	5132.8	4469.7	2737.2	1277.1	910.9	868.5	848.4	843.9	841.7	839.5	839.5
25°	5206.5	4427.2	2431.3	1044.8	861.8	832.8	812.7	808.2	805.9	797.0	799.3
27.5°	5304.7	4396.0	2116.5	901.9	817.1	788.1	774.7	768.0	763.6	756.8	759.1
30°	5438.6	4369.2	1781.6	823.9	765.8	741.3	727.8	723.3	718.9	712.2	712.2
32.5°	5670.8	4380.4	1428.9	761.3	718.9	689.9	676.5	672.0	667.6	660.9	660.9
35°	6019.2	4445.1	1143.1	707.8	663.1	634.1	620.7	620.7	614.0	605.0	602.8
37.5°	6588.5	4610.3	917.6	656.4	609.5	582.7	567.0	562.6	555.9	542.5	540.3
40°	7260.4	4867.1	772.5	605.0	560.4	533.6	520.2	506.8	488.9	475.5	473.3
42.5°	8104.4	5130.5	669.8	553.7	513.5	488.9	473.3	451.0	424.2	406.3	404.1
45°	8984.1	5371.7	600.6	506.8	468.9	448.7	430.9	395.2	361.7	339.4	337.2
47.5°	9640.5	5416.3	544.7	462.1	430.9	410.8	386.3	341.6	296.9	276.9	270.1
50°	9950.8	5199.7	486.7	417.5	392.9	370.6	339.4	288.0	238.9	214.3	209.8
52.5°	10060.1	4824.7	439.8	377.3	355.0	328.2	290.3	232.2	187.5	162.9	160.7
55°	10015.5	4351.4	397.4	339.4	310.3	279.1	241.1	185.3	138.4	118.3	113.8
57.5°	9781.1	3748.5	355.0	301.4	265.7	234.4	192.0	138.4	93.8	75.9	73.7
60°	9149.3	2926.9	312.6	259.0	225.5	192.0	151.8	98.3	58.0	42.4	42.4
62.5°	8082.0	2172.4	272.4	216.6	189.8	154.0	107.2	62.5	31.2	22.3	20.1
65°	6753.7	1603.0	227.7	183.1	158.5	120.6	75.9	38.0	15.7	6.7	4.5
67.5°	4713.0	989.1	189.8	149.6	129.5	87.1	46.9	15.7	6.7	0.0	0.0
70°	2141.0	471.1	145.1	113.8	98.3	62.5	24.6	8.9	4.5	0.0	0.0
72.5°	665.3	247.8	102.7	82.6	66.9	40.2	13.4	6.7	4.5	0.0	0.0
75°	308.1	158.5	64.8	44.6	38.0	20.1	8.9	4.5	2.3	0.0	0.0
77.5°	230.0	122.8	38.0	24.6	20.1	13.4	6.7	4.5	2.3	0.0	0.0
80°	200.9	62.5	22.3	15.7	11.2	8.9	4.5	2.3	0.0	0.0	0.0
82.5°	180.9	31.2	13.4	8.9	6.7	4.5	2.3	2.3	0.0	0.0	0.0
85°	98.3	17.9	8.9	6.7	4.5	2.3	2.3	0.0	0.0	0.0	0.0
87.5°	17.9	8.9	6.7	4.5	4.5	2.3	2.3	2.3	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)