

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: P646803

Luminaire Tested: **GALN-SA2C-835-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646803
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-835-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8127.5 lumens
Efficiency: N/A
Efficacy: 75.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

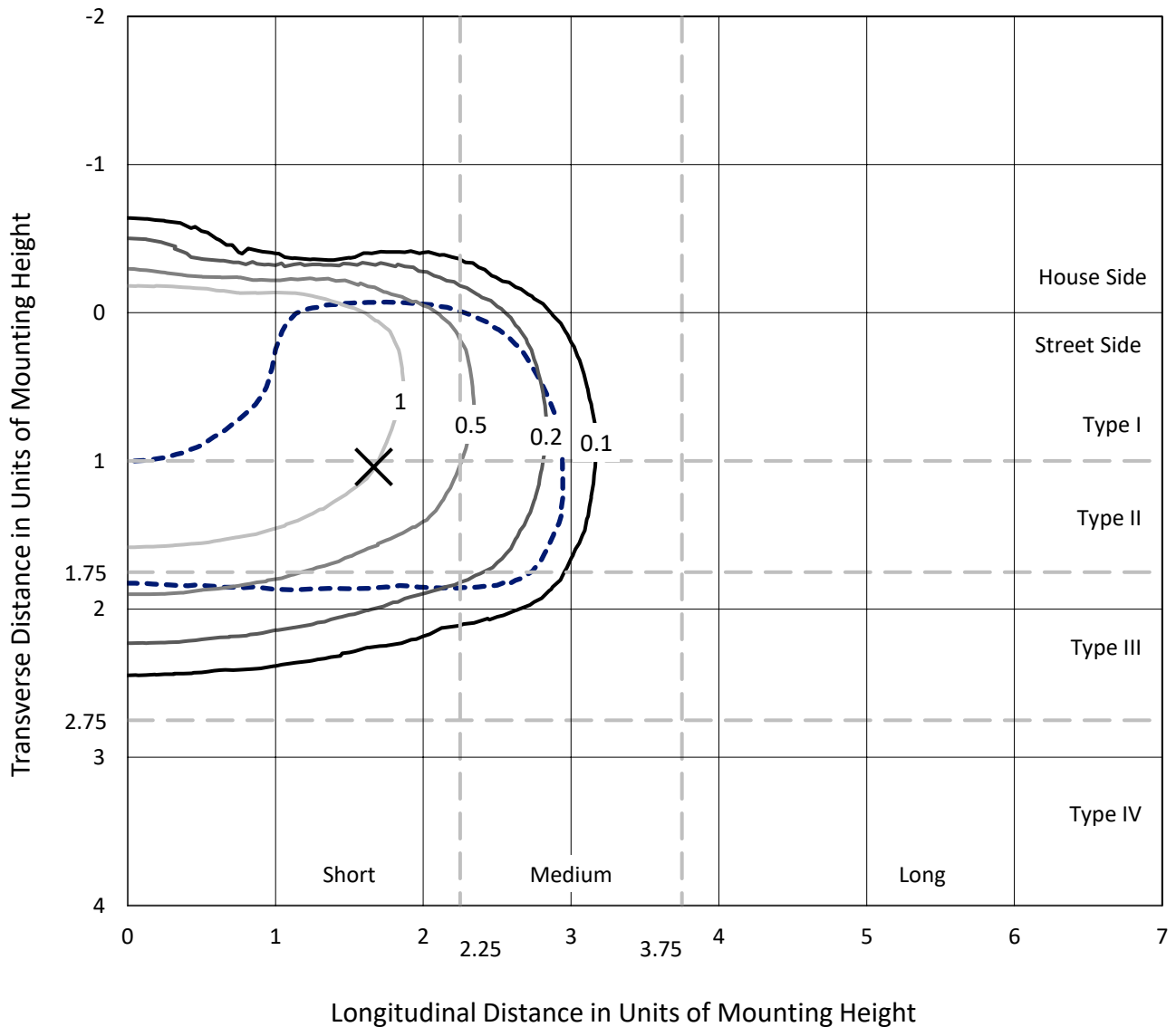
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

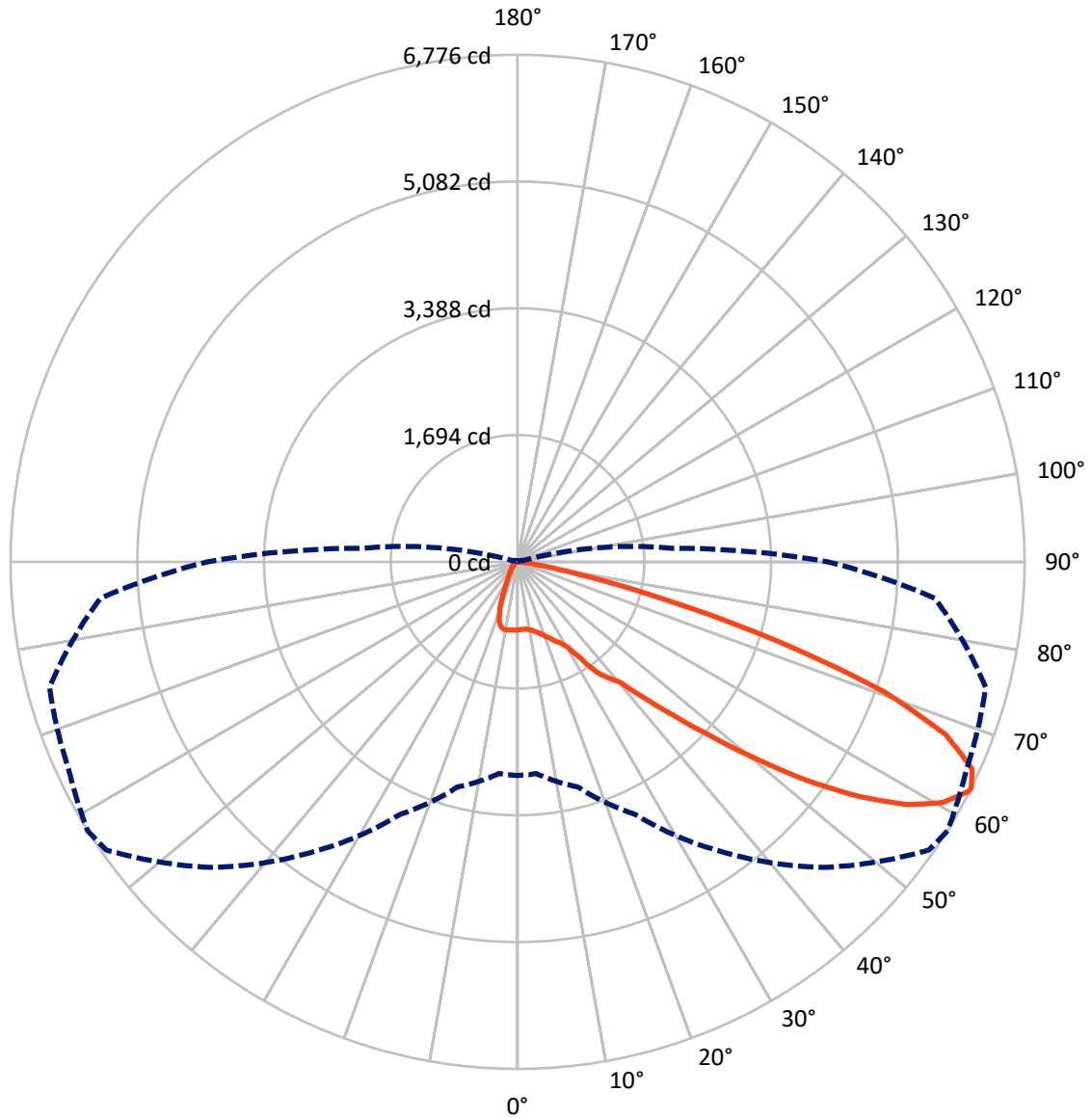
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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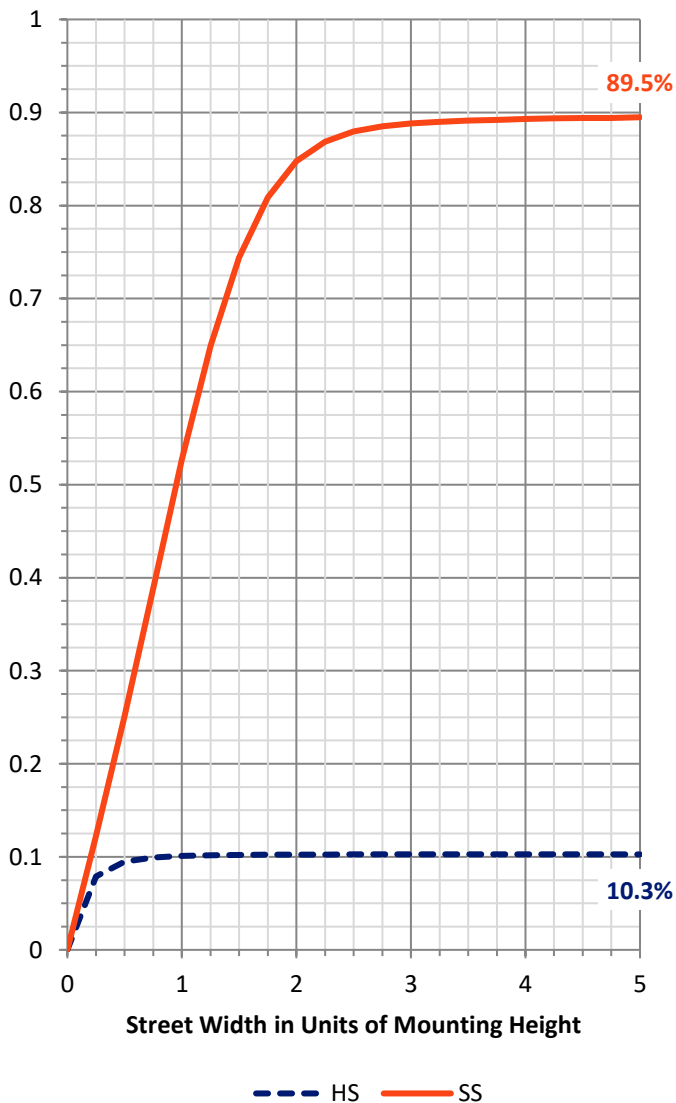
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	841.5	0.0	841.5
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	7286.0	0.0	7286.0
	% Fixture	89.6	0.0	89.6
Total	Lumens	8127.5	0.0	8127.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.2	1.0
10°-20°	232.0	2.9
20°-30°	402.6	5.0
30°-40°	739.9	9.1
40°-50°	1392.9	17.1
50°-60°	2382.4	29.3
60°-70°	2281.1	28.1
70°-80°	581.7	7.2
80°-90°	29.7	0.4
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°	8127.5	100.0
0°-180°	8127.5	100.0

Coefficient of Utilization



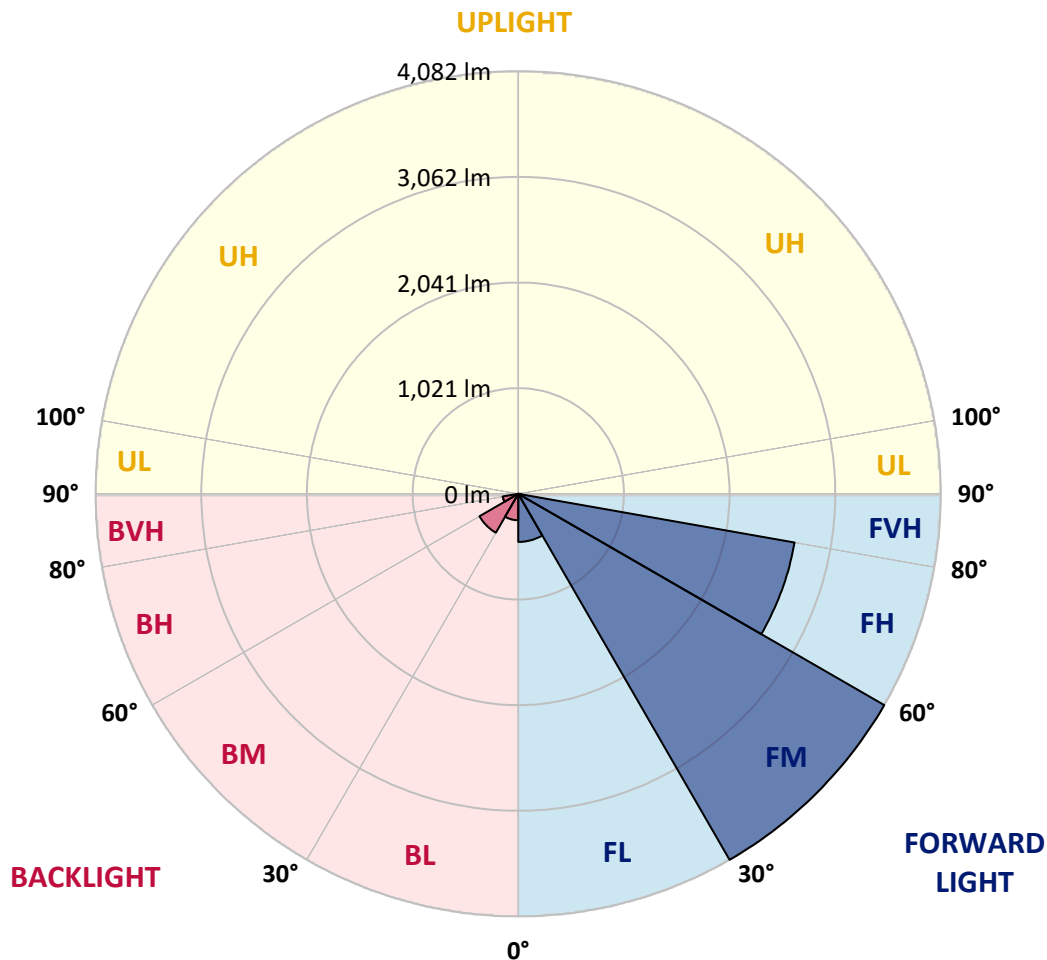
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	464.6	5.7			
FM (30°-60°)	4082.3	50.2			
FH (60°-80°)	2710.5	33.3			G2/5000
FVH (80°-90°)	28.6	0.4			G1/100
BL (0°-30°)	255.2	3.1	B1/500		
BM (30°-60°)	432.8	5.3	B1/1000		
BH (60°-80°)	152.3	1.9	B1/500		G1/500
BVH (80°-90°)	1.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	909.9	909.9	909.9	909.9	909.9	909.9	909.9	909.9	909.9	909.9	909.9
2.5°	887.3	890.3	893.4	894.6	898.9	903.2	906.2	905.6	910.6	913.0	913.0
5°	851.7	851.7	859.7	867.1	879.3	891.5	903.2	905.6	914.8	923.4	926.4
7.5°	821.8	823.6	829.7	843.2	859.7	881.2	904.4	909.9	925.8	944.8	952.8
10°	807.7	808.9	816.9	831.0	851.7	881.2	913.6	924.0	948.4	978.4	989.5
12.5°	804.7	806.5	814.5	830.4	854.3	889.7	933.8	944.8	980.3	1018.8	1035.4
15°	810.2	811.4	819.3	836.5	862.8	905.0	960.7	976.0	1018.2	1062.9	1084.3
17.5°	829.7	828.5	834.1	848.1	877.5	924.0	993.2	1011.5	1061.0	1122.3	1136.3
20°	913.0	905.0	900.1	887.8	899.5	950.9	1032.3	1059.2	1120.4	1182.8	1192.6
22.5°	1092.3	1074.5	1039.7	991.9	955.2	987.6	1079.4	1110.6	1189.5	1250.8	1250.8
25°	1320.5	1297.8	1263.0	1158.9	1069.0	1048.2	1132.6	1171.8	1264.8	1326.6	1306.4
27.5°	1606.2	1588.6	1520.6	1399.5	1261.7	1154.1	1194.5	1230.6	1331.5	1406.2	1363.9
30°	1838.8	1830.2	1774.5	1666.2	1514.5	1357.3	1309.5	1333.4	1420.2	1506.5	1463.1
32.5°	2035.2	2035.2	1978.3	1877.3	1735.4	1595.8	1504.7	1521.8	1605.1	1704.7	1624.0
35°	2251.2	2243.8	2198.0	2101.9	1942.8	1819.8	1782.5	1805.8	1881.0	1955.1	1756.2
37.5°	2478.2	2475.8	2428.1	2335.1	2205.3	2050.5	1963.0	1969.1	2007.7	2052.9	1911.0
40°	2724.8	2728.5	2666.1	2608.6	2486.2	2327.7	2160.1	2121.5	2157.6	2285.5	2196.8
42.5°	3016.1	3007.5	2980.6	2902.3	2803.8	2708.9	2507.6	2493.5	2525.3	2662.4	2566.4
45°	3354.5	3366.7	3320.2	3276.8	3210.7	3131.8	2963.5	2939.0	2973.9	3186.8	3050.3
47.5°	3693.5	3681.8	3711.8	3703.9	3739.4	3680.6	3532.0	3481.8	3565.6	3767.6	3566.8
50°	3951.7	3964.6	4027.0	4118.2	4270.5	4303.5	4161.0	4143.9	4181.1	4310.9	4028.8
52.5°	4119.4	4162.2	4260.1	4494.5	4769.3	4982.8	4874.5	4865.3	4850.0	4884.9	4470.6
55°	4228.9	4272.4	4400.2	4745.4	5218.4	5565.3	5570.8	5531.7	5430.7	5405.6	4883.6
57.5°	4161.6	4170.2	4352.5	4813.9	5467.4	5980.8	6160.7	6121.6	5934.9	5840.1	5248.4
60°	3740.6	3758.3	4012.3	4554.5	5359.1	6116.6	6551.8	6534.0	6329.6	6222.5	5532.3
62.5°	2994.7	3046.1	3307.4	3911.9	4855.5	5887.8	6710.2	6760.3	6601.3	6453.8	5621.6
63°	2857.6	2841.1	3117.0	3724.7	4722.1	5774.6	6712.7	6776.3	6613.5	6475.8	5597.1
65°	2115.4	2164.9	2344.2	2937.2	3929.7	5247.7	6561.5	6674.1	6568.3	6378.6	5326.0
67.5°	1187.7	1185.3	1383.6	1922.0	2750.5	4116.3	5933.1	6171.1	6149.1	5723.8	4414.9
70°	581.3	590.5	671.9	996.2	1595.3	2839.9	4930.2	5187.1	5195.1	4495.7	3052.8
72.5°	263.1	267.4	325.6	485.2	820.0	1512.1	3397.4	3642.7	3597.4	2865.0	1685.8
75°	138.9	148.1	179.3	244.1	395.3	623.5	1848.0	2085.4	1990.5	1308.9	620.4
77.5°	102.8	105.9	121.8	155.4	211.7	243.0	797.3	948.4	888.5	473.6	205.6
80°	75.2	77.7	90.6	110.2	133.4	123.6	300.4	344.5	309.1	160.9	63.0
82.5°	45.9	46.5	66.1	82.0	83.9	69.1	99.1	106.5	111.3	90.6	34.3
85°	16.5	20.8	44.6	59.4	49.6	34.8	41.6	45.9	50.2	57.6	20.2
87.5°	1.8	2.4	21.5	28.7	14.1	12.8	15.3	17.1	18.3	21.5	9.8
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°	909.9	909.9	909.9	909.9	909.9	909.9	909.9	909.9	909.9	909.9	909.9
2.5°	915.4	917.8	916.0	913.0	912.4	910.6	906.9	906.9	906.9	908.0	906.9
5°	928.9	930.8	926.4	920.3	913.6	905.0	895.8	890.3	889.7	888.5	885.4
7.5°	954.6	957.1	947.3	932.6	914.2	893.4	873.8	855.4	846.9	840.2	840.2
10°	991.9	994.3	974.8	948.4	911.7	869.5	823.0	780.8	747.8	732.4	728.8
12.5°	1036.6	1037.8	1005.4	959.5	898.9	817.5	718.4	626.0	561.7	532.4	529.3
15°	1085.6	1076.9	1034.1	963.8	862.2	710.4	539.1	425.9	359.2	339.6	346.9
17.5°	1135.1	1119.2	1056.2	957.1	779.6	539.1	362.2	290.6	269.8	264.3	264.3
20°	1181.6	1159.5	1072.1	927.6	636.4	371.5	268.6	251.5	247.8	244.1	244.8
22.5°	1228.1	1194.5	1086.2	862.2	474.3	265.6	240.5	235.0	230.0	225.2	224.6
25°	1273.4	1226.9	1091.7	741.0	323.1	228.2	219.7	212.3	202.6	197.0	195.8
27.5°	1320.5	1266.0	1088.0	588.0	235.6	204.4	195.8	185.4	173.7	164.0	164.0
30°	1411.0	1340.7	1075.1	422.8	198.3	179.9	168.9	152.4	139.5	129.7	129.1
32.5°	1534.7	1438.0	1031.1	297.4	176.3	158.5	142.0	123.6	110.2	102.8	102.8
35°	1644.8	1535.9	948.4	219.1	158.5	137.7	117.4	99.8	89.3	84.4	82.6
37.5°	1812.5	1679.1	834.7	178.1	141.3	119.3	98.5	82.0	73.4	69.8	69.8
40°	2064.0	1854.1	695.1	156.1	124.8	101.6	82.0	69.1	62.4	58.1	58.1
42.5°	2376.0	2068.2	553.8	140.2	109.5	87.5	68.5	58.7	52.6	49.6	48.9
45°	2768.9	2294.0	426.5	125.4	97.3	74.6	58.1	49.6	43.5	41.6	42.2
47.5°	3178.9	2492.9	330.4	112.6	84.4	63.0	49.6	42.8	38.5	36.1	36.1
50°	3528.9	2630.0	250.9	97.9	74.6	53.2	43.5	38.5	34.8	33.7	33.0
52.5°	3821.4	2669.8	192.1	85.0	65.5	45.9	38.5	34.8	31.8	30.0	30.0
55°	4070.4	2634.9	150.5	71.6	55.0	39.8	34.3	31.2	27.6	25.7	25.1
57.5°	4216.1	2522.9	115.0	59.4	44.6	33.0	30.0	26.3	22.0	18.9	18.9
60°	4289.5	2360.1	88.1	48.9	34.3	26.3	24.5	19.6	15.3	12.8	12.2
62.5°	4201.3	2144.2	66.7	38.5	25.7	19.6	16.5	14.1	9.8	7.4	7.4
63°	4146.9	2081.7	64.3	36.7	23.9	18.3	15.3	12.8	8.5	6.7	6.1
65°	3780.4	1809.4	52.6	29.4	18.9	12.8	10.4	9.2	6.1	3.1	2.4
67.5°	3002.0	1384.1	41.6	22.0	13.5	9.2	6.1	5.5	1.8	0.0	0.0
70°	2029.7	894.0	32.4	15.9	9.2	5.5	3.1	2.4	0.6	0.0	0.0
72.5°	1058.6	458.3	25.1	11.6	5.5	3.7	1.8	0.6	0.0	0.0	0.0
75°	374.5	156.1	18.3	7.4	3.7	1.8	0.6	0.0	0.0	0.0	0.0
77.5°	113.2	58.1	11.6	5.5	2.4	1.3	0.0	0.0	0.0	0.0	0.0
80°	39.8	21.5	6.7	3.7	1.8	0.6	0.0	0.0	0.0	0.0	0.0
82.5°	19.6	10.4	4.3	3.1	1.8	0.6	0.0	0.0	0.0	0.0	0.0
85°	11.0	6.7	3.7	3.1	1.8	1.3	0.0	0.0	0.0	0.0	0.0
87.5°	8.0	4.9	3.7	3.1	2.4	1.3	0.6	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)