

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: P527747

Luminaire Tested: **GALN-SA2D-735-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527747
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-735-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9584 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B1 - U0 - G0

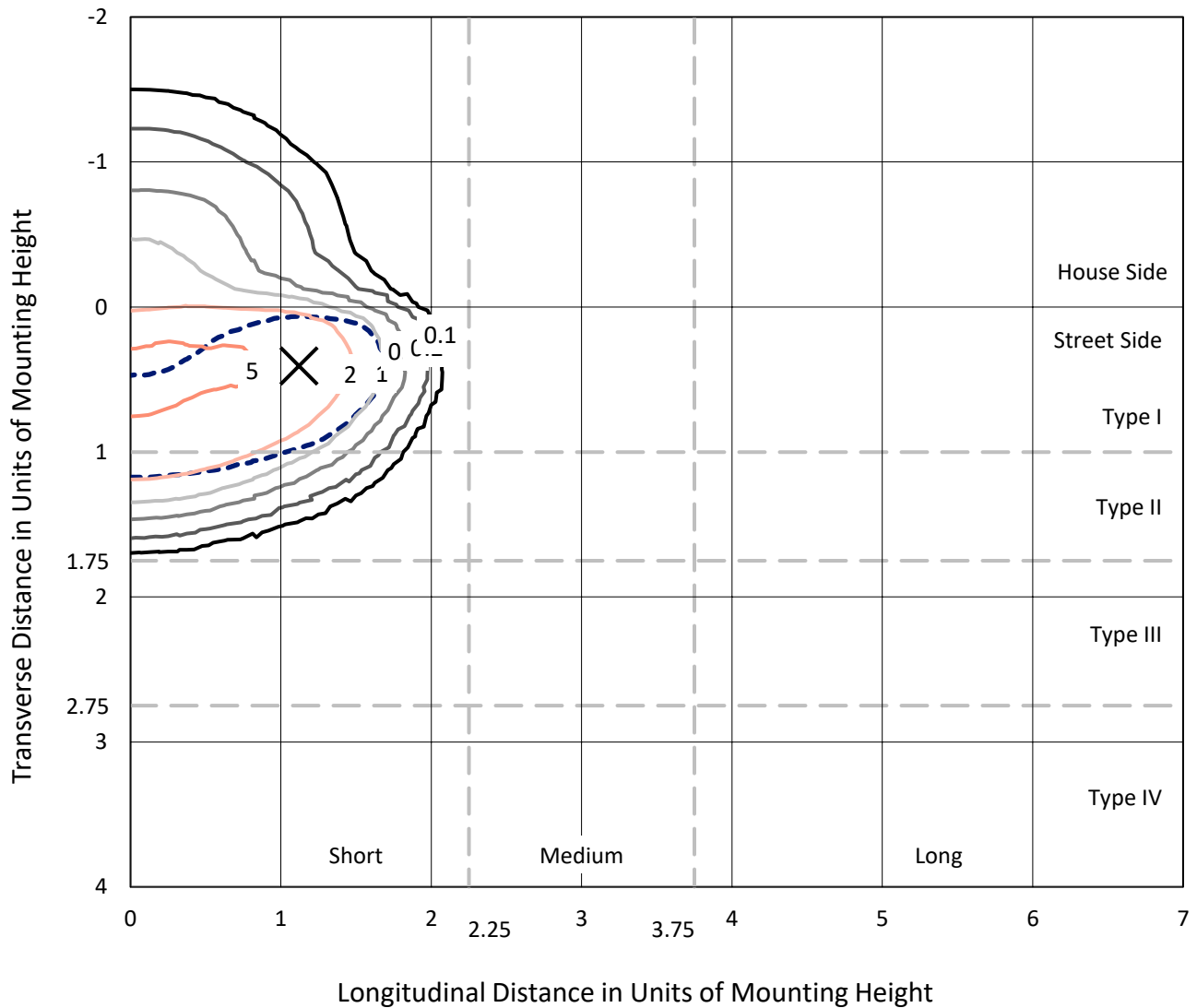
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

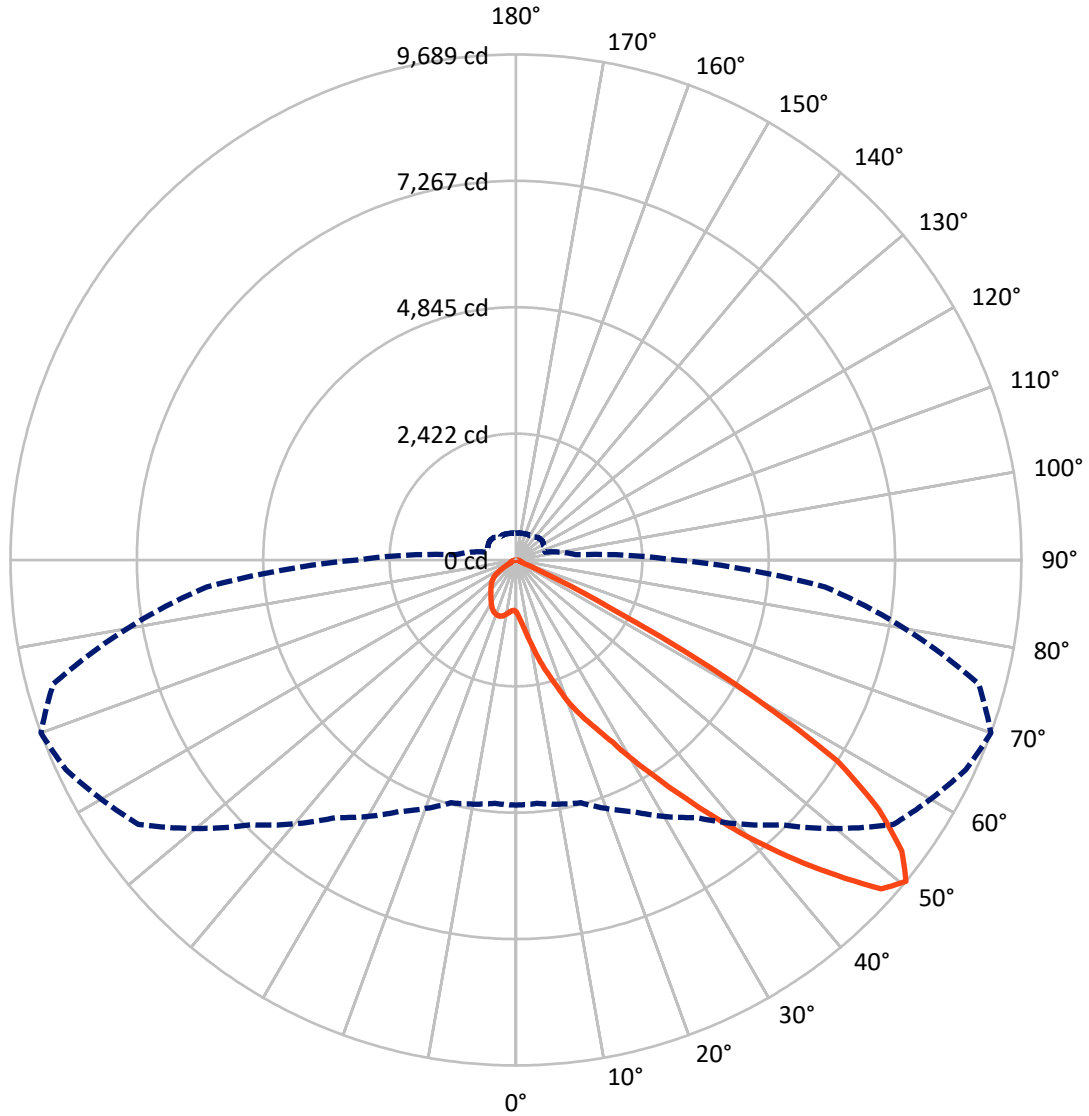
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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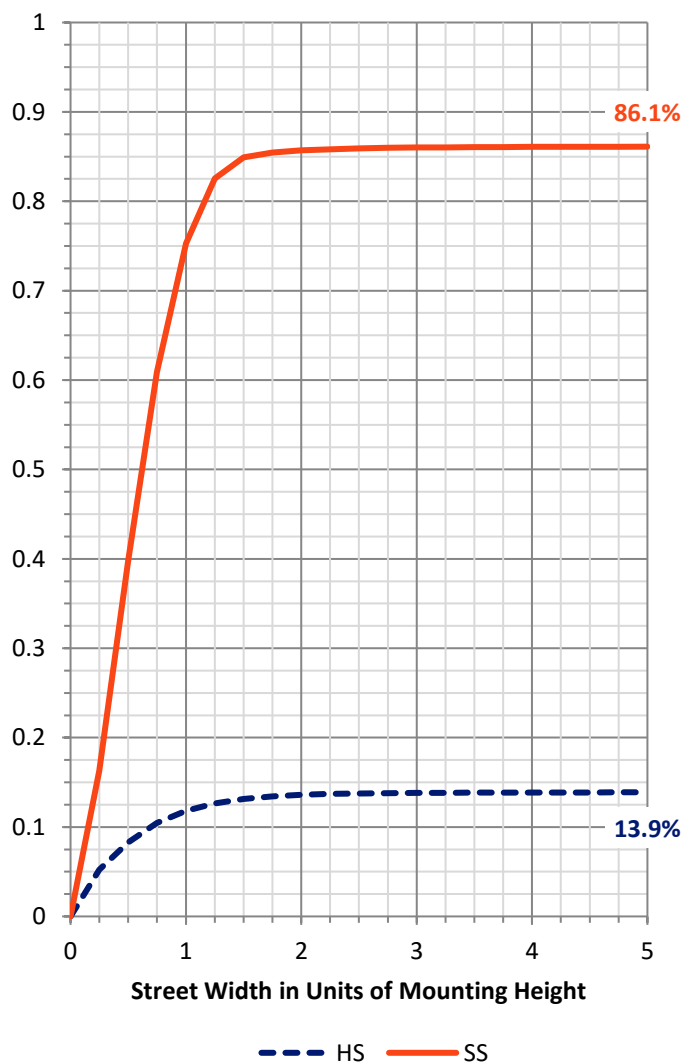
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1338.5	0.0	1338.5
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	8245.5	0.0	8245.5
	% Fixture	86.0	0.0	86.0
Total	Lumens	9584.0	0.0	9584.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.1	1.3
10°-20°	558.4	5.8
20°-30°	1171.4	12.2
30°-40°	2019.1	21.1
40°-50°	2950.9	30.8
50°-60°	2298.3	24.0
60°-70°	389.4	4.1
70°-80°	53.5	0.6
80°-90°	13.9	0.1
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°	9584.0	100.0
0°-180°	9584.0	100.0

Coefficient of Utilization



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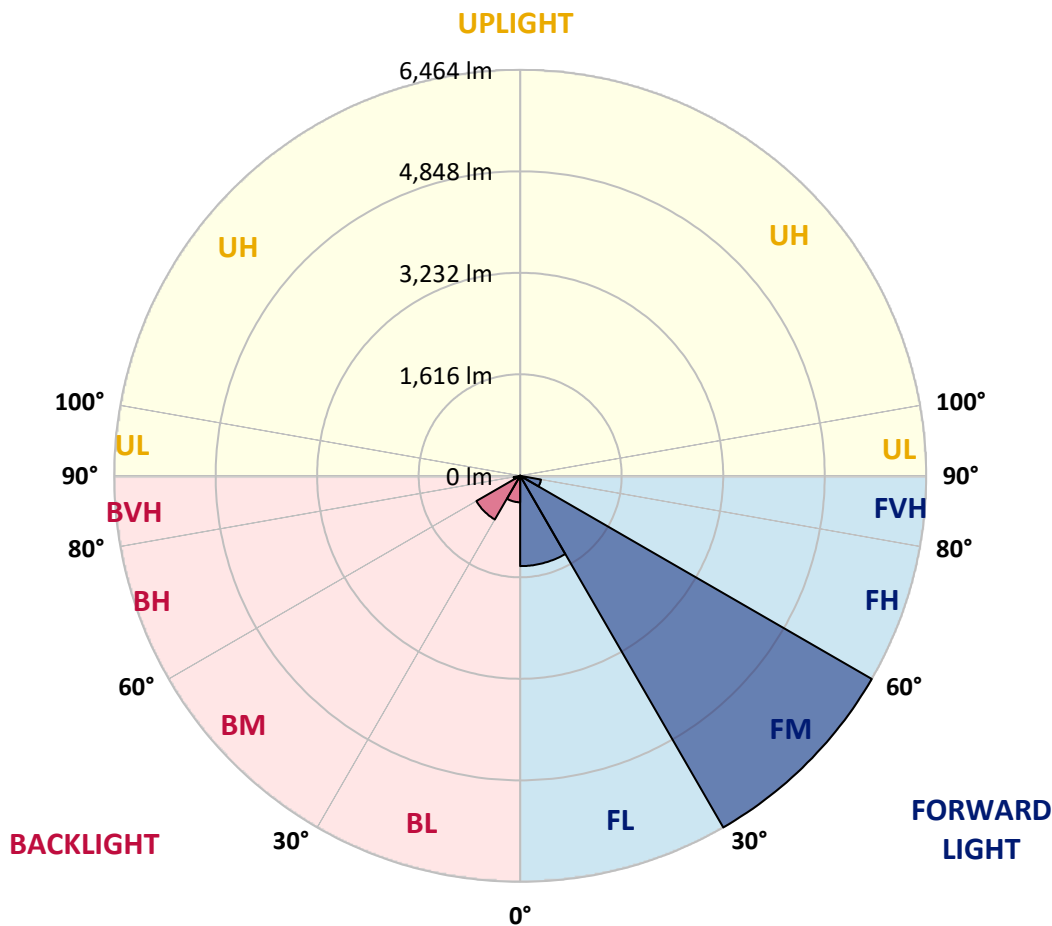
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1437.7	15.0			
FM (30°-60°)	6464.2	67.4			
FH (60°-80°)	337.2	3.5			G0/660
FVH (80°-90°)	6.4	0.1			G0/10
BL (0°-30°)	421.2	4.4	B1/500		
BM (30°-60°)	804.1	8.4	B1/1000		
BH (60°-80°)	105.7	1.1	B0/110		G0/110
BVH (80°-90°)	7.5	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	992.7	992.7	992.7	992.7	992.7	992.7	992.7	992.7	992.7	992.7	992.7
2.5°	1300.0	1290.5	1270.0	1232.2	1216.5	1178.7	1156.6	1114.0	1087.3	1057.3	1024.2
5°	1831.0	1782.2	1752.2	1709.7	1585.2	1508.0	1380.3	1271.6	1221.2	1166.0	1090.4
7.5°	2379.4	2347.8	2306.9	2215.5	2130.4	1969.7	1750.6	1511.1	1408.7	1314.2	1164.5
10°	2833.2	2744.9	2740.2	2672.4	2579.5	2387.2	2124.1	1826.3	1643.5	1504.8	1270.0
12.5°	3149.9	3069.5	3105.8	3097.9	3011.2	2834.7	2530.6	2136.7	1946.0	1730.2	1378.8
15°	3438.3	3405.2	3394.1	3384.7	3350.0	3219.2	2946.6	2514.9	2239.1	1979.1	1501.7
17.5°	3720.3	3635.2	3676.2	3684.1	3680.9	3562.7	3307.5	2874.1	2549.5	2242.3	1630.9
20°	3970.9	3978.7	3923.6	3912.6	3903.1	3898.4	3649.4	3230.3	2930.9	2518.0	1799.5
22.5°	4292.3	4237.2	4286.0	4254.5	4193.0	4155.2	3964.6	3545.4	3261.8	2850.5	1971.2
25°	4672.1	4716.2	4601.1	4588.5	4520.8	4390.0	4218.2	3898.4	3580.1	3159.4	2157.2
27.5°	5140.1	5062.8	5032.9	4963.6	4840.7	4785.5	4583.8	4262.4	3964.6	3484.0	2336.8
30°	5541.9	5521.4	5371.7	5289.7	5182.6	5181.0	4899.0	4755.6	4465.6	3992.9	2584.2
32.5°	5869.6	5779.8	5724.6	5667.9	5581.3	5604.9	5367.0	5291.3	4999.8	4465.6	2875.7
35°	6088.6	6024.0	5990.9	5904.3	5879.1	5984.6	5885.4	5853.9	5614.3	5130.6	3217.7
37.5°	6158.0	6178.5	6172.2	6063.4	6117.0	6402.2	6529.8	6447.9	6321.9	5831.8	3588.0
40°	6219.4	6233.6	6202.1	6329.7	6482.6	6807.2	7268.9	7133.4	7086.1	6542.5	4103.2
42.5°	6254.1	6243.1	6243.1	6463.7	6695.3	7347.7	7982.7	7892.9	7856.6	7298.8	4698.8
45°	6104.4	5997.3	6112.3	6411.7	6878.1	7614.0	8553.1	8677.6	8625.6	8198.6	5395.3
47.5°	5545.0	5611.2	5675.8	6076.0	6655.9	7532.0	8902.9	9326.8	9422.9	8954.9	5852.3
50°	4698.8	4684.7	4818.6	5322.8	6027.2	7179.1	8835.2	9514.3	9689.2	9181.8	5948.4
52.5°	3417.8	3521.8	3666.7	4167.8	5003.0	6265.1	7960.6	9030.5	9263.8	8902.9	5885.4
55°	1990.2	1875.1	2201.3	2625.2	3413.0	4725.6	6730.0	8004.7	8436.5	8395.5	5567.1
57.5°	797.3	772.1	884.0	1191.3	1780.6	2929.3	4894.2	6577.1	7268.9	7689.6	4892.7
60°	349.8	341.9	401.8	485.3	728.0	1350.4	2677.2	4090.6	4812.3	5373.3	3367.3
62.5°	252.1	249.0	278.9	308.8	384.5	587.7	1125.1	1648.2	2054.8	2481.8	1508.0
65°	203.3	211.1	231.6	247.4	283.6	326.2	397.1	458.5	562.5	583.0	332.5
67.5°	165.5	171.8	190.7	208.0	214.3	176.5	182.8	160.7	160.7	143.4	115.0
70°	121.3	122.9	145.0	165.5	132.4	70.9	124.5	124.5	111.9	107.2	97.7
72.5°	89.8	91.4	108.7	102.4	52.0	44.1	91.4	100.8	91.4	86.7	78.8
75°	66.2	67.8	56.7	23.6	22.1	28.4	53.6	69.3	66.2	64.6	59.9
77.5°	12.6	9.5	7.9	11.0	15.8	23.6	34.7	42.5	44.1	47.3	44.1
80°	1.6	1.6	4.7	9.5	17.3	25.2	36.2	41.0	42.5	44.1	41.0
82.5°	0.0	1.6	4.7	9.5	17.3	23.6	31.5	36.2	39.4	41.0	39.4
85°	0.0	1.6	3.2	7.9	14.2	17.3	15.8	11.0	9.5	11.0	7.9
87.5°	0.0	0.0	1.6	1.6	3.2	3.2	3.2	3.2	3.2	3.2	3.2
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°	992.7	992.7	992.7	992.7	992.7	992.7	992.7	992.7	992.7	992.7	992.7
2.5°	1005.3	999.0	977.0	953.3	932.8	942.3	932.8	925.0	928.1	925.0	921.8
5°	1060.5	1032.1	984.8	964.4	947.0	945.4	940.7	939.1	940.7	940.7	926.5
7.5°	1112.5	1066.8	1016.3	994.3	973.8	975.4	964.4	964.4	962.8	954.9	951.7
10°	1191.3	1129.8	1065.2	1025.8	1000.6	995.9	984.8	973.8	973.8	973.8	958.0
12.5°	1277.9	1200.7	1112.5	1066.8	1036.8	1013.2	995.9	992.7	975.4	972.2	964.4
15°	1353.6	1255.9	1144.0	1081.0	1043.1	1011.6	984.8	967.5	959.6	954.9	948.6
17.5°	1427.6	1303.1	1161.3	1081.0	1040.0	1003.7	975.4	959.6	940.7	943.9	931.3
20°	1526.9	1353.6	1166.0	1060.5	1010.0	975.4	937.6	929.7	918.7	909.2	912.4
22.5°	1623.0	1389.8	1151.9	1035.3	962.8	921.8	902.9	893.4	888.7	880.8	869.8
25°	1709.7	1429.2	1129.8	989.6	912.4	882.4	865.1	863.5	852.5	852.5	832.0
27.5°	1797.9	1443.4	1092.0	936.0	868.2	850.9	843.0	839.9	835.1	824.1	809.9
30°	1898.8	1448.1	1036.8	880.8	828.8	809.9	821.0	828.8	808.4	787.9	794.2
32.5°	1982.3	1437.1	970.7	828.8	800.5	791.0	813.1	821.0	797.3	775.3	764.2
35°	2083.1	1410.3	906.0	787.9	772.1	791.0	809.9	809.9	762.7	735.9	729.6
37.5°	2236.0	1380.3	846.2	753.2	742.2	781.6	806.8	789.4	715.4	682.3	674.4
40°	2399.8	1361.4	787.9	718.5	726.4	765.8	780.0	726.4	650.8	630.3	624.0
42.5°	2637.8	1323.6	735.9	688.6	712.2	743.7	743.7	647.6	619.3	608.2	606.7
45°	2934.0	1296.8	690.2	663.4	691.7	699.6	674.4	606.7	586.2	583.0	584.6
47.5°	3079.0	1244.8	642.9	633.4	653.9	655.5	589.3	573.6	556.2	551.5	548.4
50°	3056.9	1151.9	581.4	594.1	622.4	606.7	537.3	540.5	524.7	523.1	515.3
52.5°	2902.5	1005.3	520.0	549.9	581.4	535.8	494.8	491.6	491.6	471.1	463.3
55°	2573.2	809.9	445.9	483.8	521.6	450.7	439.6	436.5	428.6	409.7	405.0
57.5°	2037.4	594.1	335.6	376.6	442.8	382.9	381.3	367.1	346.7	332.5	332.5
60°	1211.7	341.9	211.1	230.1	293.1	310.4	345.1	338.8	304.1	282.1	275.8
62.5°	553.1	176.5	133.9	137.1	157.6	201.7	271.0	313.6	264.7	226.9	223.8
65°	185.9	130.8	110.3	105.6	108.7	121.3	162.3	222.2	211.1	174.9	168.6
67.5°	113.5	116.6	104.0	96.1	96.1	94.5	93.0	100.8	124.5	121.3	122.9
70°	97.7	107.2	96.1	86.7	83.5	78.8	66.2	55.2	47.3	55.2	58.3
72.5°	78.8	85.1	81.9	74.1	66.2	59.9	47.3	36.2	26.8	23.6	23.6
75°	58.3	63.0	66.2	56.7	50.4	42.5	34.7	23.6	14.2	9.5	9.5
77.5°	42.5	47.3	48.8	44.1	37.8	29.9	22.1	15.8	7.9	3.2	3.2
80°	36.2	42.5	47.3	44.1	39.4	28.4	20.5	11.0	6.3	1.6	1.6
82.5°	34.7	42.5	47.3	42.5	37.8	26.8	20.5	12.6	4.7	1.6	1.6
85°	7.9	11.0	14.2	17.3	20.5	20.5	15.8	9.5	4.7	1.6	1.6
87.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	1.6	1.6	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)