

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: P527981

Luminaire Tested: **GALN-SA3A-735-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527981
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-SA3A-735-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 615mA 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: 8411 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B1 - U0 - G0

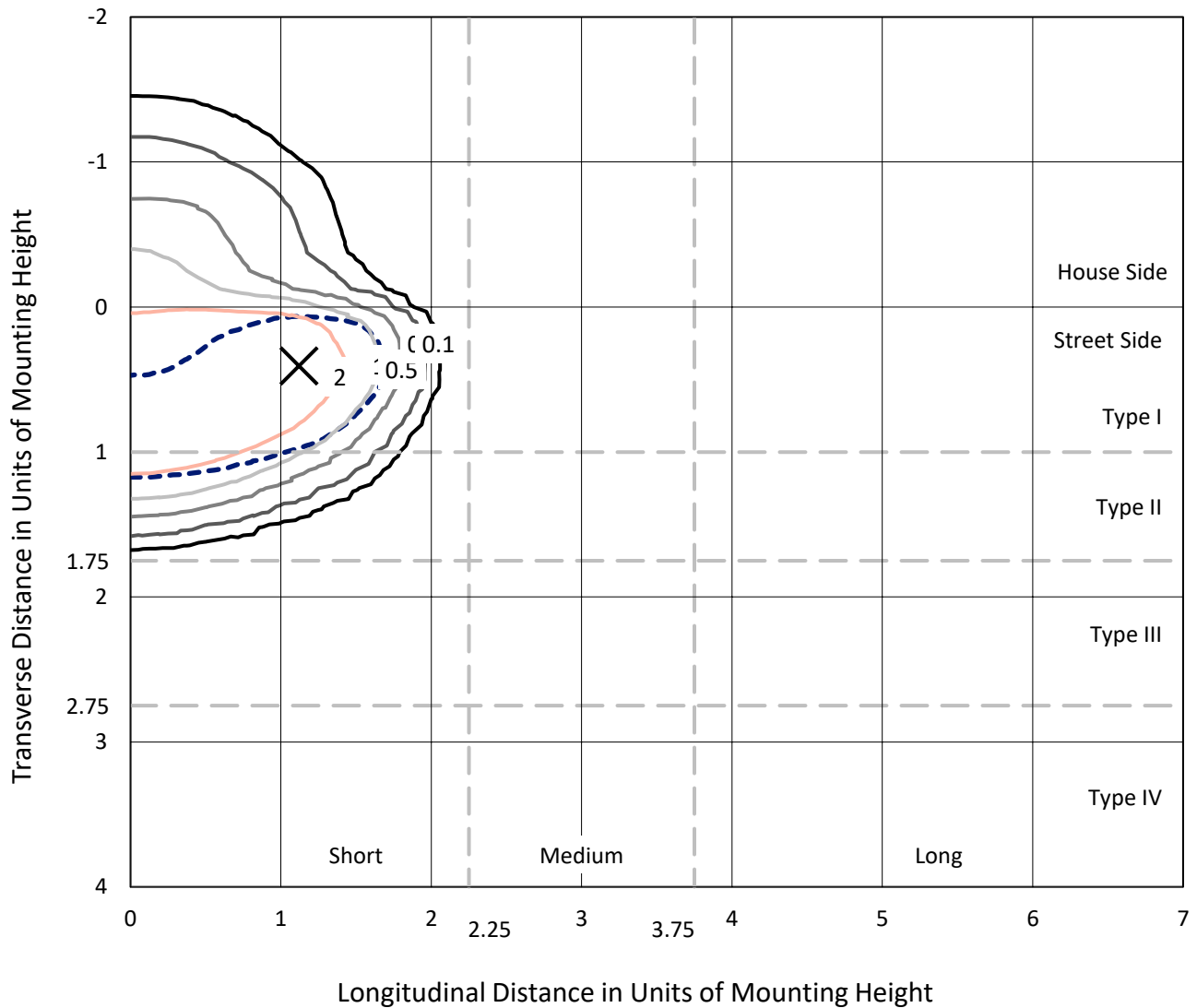
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

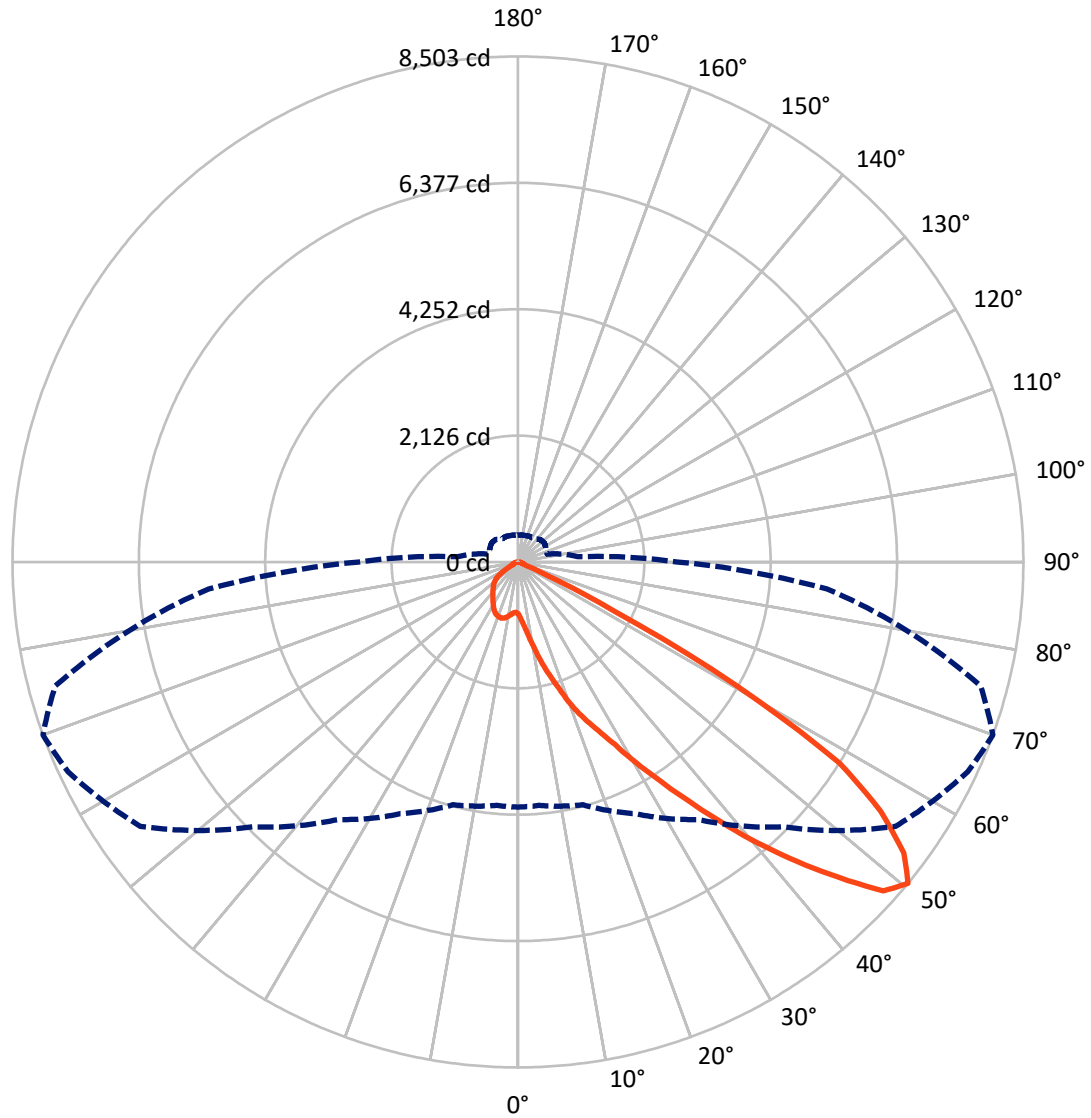
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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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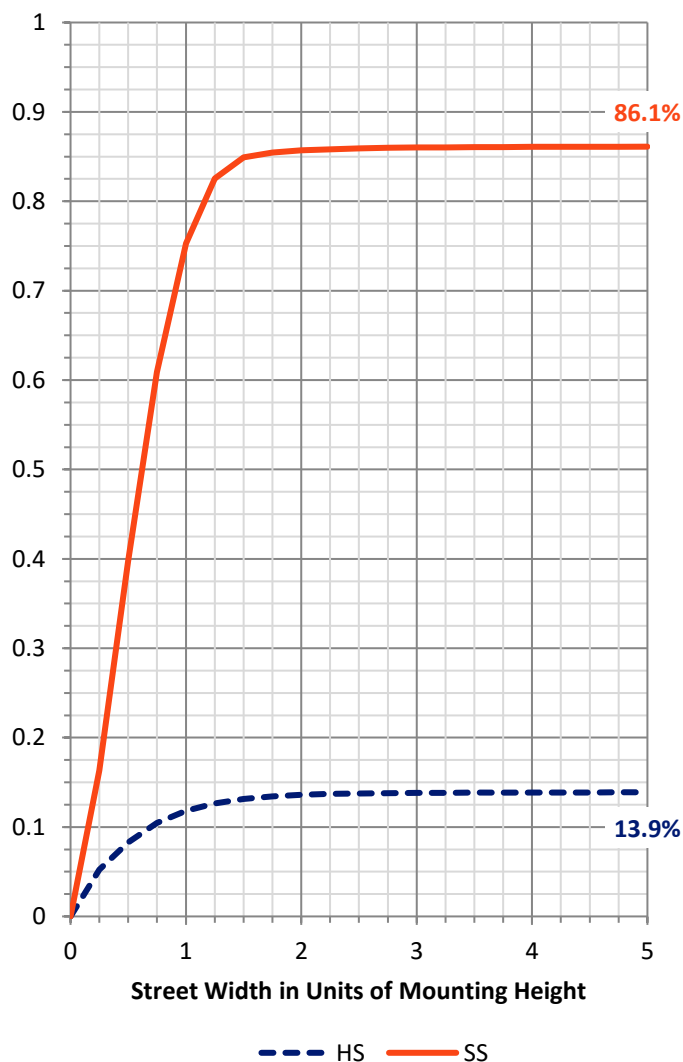
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1174.7	0.0	1174.7
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	7236.3	0.0	7236.3
	% Fixture	86.0	0.0	86.0
Total	Lumens	8411.0	0.0	8411.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.3	1.3
10°-20°	490.1	5.8
20°-30°	1028.0	12.2
30°-40°	1772.0	21.1
40°-50°	2589.8	30.8
50°-60°	2017.0	24.0
60°-70°	341.7	4.1
70°-80°	46.9	0.6
80°-90°	12.2	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°	8411.0	100.0
0°-180°	8411.0	100.0

Coefficient of Utilization



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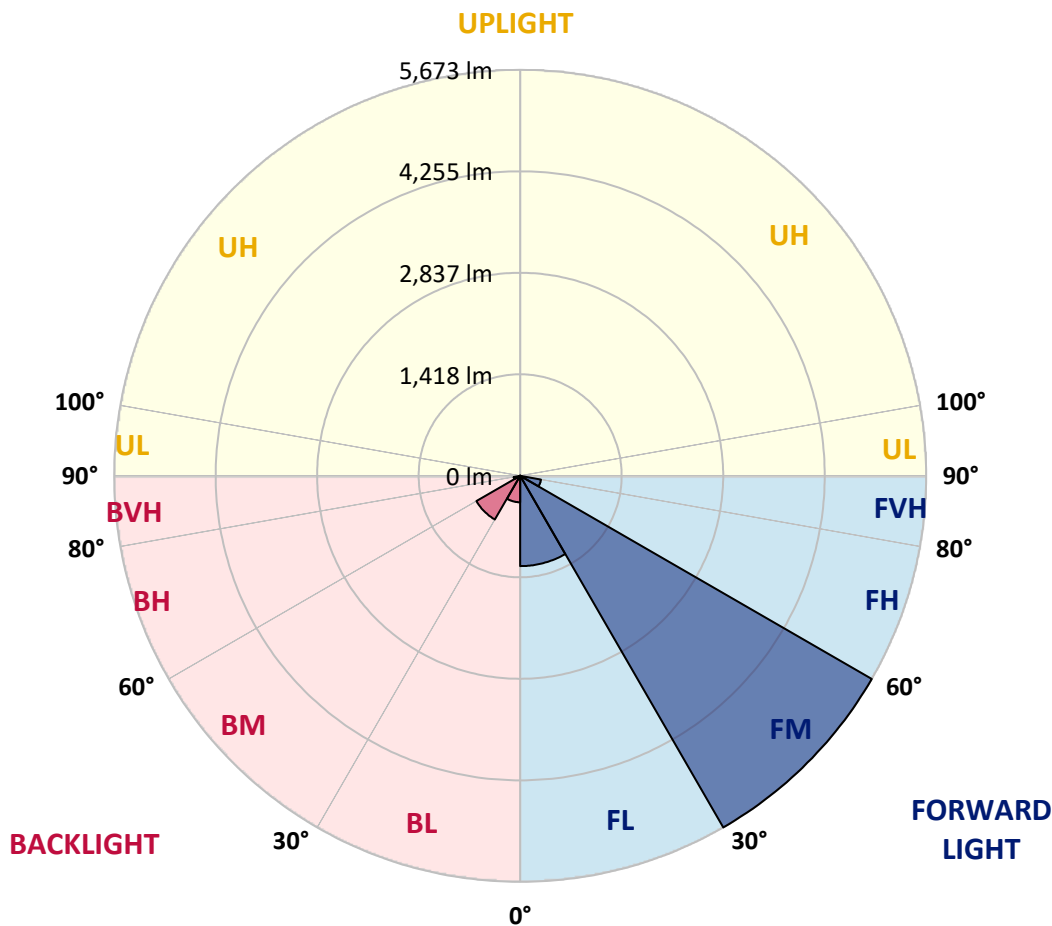
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1261.7	15.0			
FM (30°-60°)	5673.1	67.4			
FH (60°-80°)	295.9	3.5			G0/660
FVH (80°-90°)	5.6	0.1			G0/10
BL (0°-30°)	369.6	4.4	B1/500		
BM (30°-60°)	705.7	8.4	B1/1000		
BH (60°-80°)	92.8	1.1	B0/110		G0/110
BVH (80°-90°)	6.5	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°	871.2	871.2	871.2	871.2	871.2	871.2	871.2	871.2	871.2	871.2	871.2
2.5°	1140.9	1132.6	1114.6	1081.4	1067.6	1034.4	1015.0	977.7	954.2	927.9	898.9
5°	1606.9	1564.0	1537.8	1500.4	1391.2	1323.4	1211.4	1116.0	1071.7	1023.3	957.0
7.5°	2088.1	2060.5	2024.5	1944.3	1869.7	1728.6	1536.4	1326.2	1236.3	1153.3	1021.9
10°	2486.4	2409.0	2404.8	2345.4	2263.8	2095.1	1864.1	1602.8	1442.3	1320.6	1114.6
12.5°	2764.4	2693.8	2725.7	2718.7	2642.7	2487.8	2220.9	1875.2	1707.9	1518.4	1210.0
15°	3017.4	2988.4	2978.7	2970.4	2940.0	2825.2	2586.0	2207.1	1965.1	1736.9	1317.9
17.5°	3265.0	3190.3	3226.3	3233.2	3230.4	3126.7	2902.7	2522.4	2237.5	1967.8	1431.3
20°	3484.9	3491.8	3443.4	3433.7	3425.4	3421.2	3202.7	2834.9	2572.2	2209.8	1579.2
22.5°	3767.0	3718.6	3761.4	3733.8	3679.8	3646.7	3479.3	3111.5	2862.6	2501.6	1730.0
25°	4100.2	4139.0	4038.0	4026.9	3967.5	3852.7	3702.0	3421.2	3141.9	2772.7	1893.2
27.5°	4511.0	4443.2	4416.9	4356.1	4248.2	4199.8	4022.8	3740.7	3479.3	3057.5	2050.8
30°	4863.6	4845.6	4714.2	4642.3	4548.3	4546.9	4299.4	4173.5	3919.1	3504.2	2267.9
32.5°	5151.2	5072.4	5024.0	4974.2	4898.2	4918.9	4710.1	4643.7	4387.9	3919.1	2523.8
35°	5343.4	5286.7	5257.7	5181.6	5159.5	5252.2	5165.1	5137.4	4927.2	4502.7	2823.8
37.5°	5404.3	5422.3	5416.7	5321.3	5368.3	5618.6	5730.7	5658.7	5548.1	5118.0	3148.8
40°	5458.2	5470.7	5443.0	5555.0	5689.2	5974.0	6379.2	6260.3	6218.8	5741.7	3601.0
42.5°	5488.6	5479.0	5479.0	5672.6	5875.9	6448.4	7005.7	6926.8	6895.0	6405.5	4123.7
45°	5357.3	5263.2	5364.2	5626.9	6036.3	6682.1	7506.3	7615.5	7569.9	7195.1	4735.0
47.5°	4866.4	4924.4	4981.1	5332.4	5841.3	6610.2	7813.3	8185.3	8269.6	7858.9	5136.0
50°	4123.7	4111.3	4228.8	4671.4	5289.5	6300.4	7753.8	8349.8	8503.3	8058.0	5220.4
52.5°	2999.5	3090.7	3218.0	3657.7	4390.6	5498.3	6986.3	7925.3	8129.9	7813.3	5165.1
55°	1746.6	1645.6	1931.9	2303.9	2995.3	4147.3	5906.3	7025.0	7403.9	7368.0	4885.7
57.5°	699.7	677.6	775.8	1045.5	1562.7	2570.8	4295.2	5772.1	6379.2	6748.5	4293.8
60°	307.0	300.1	352.6	425.9	638.9	1185.1	2349.5	3590.0	4223.3	4715.6	2955.2
62.5°	221.3	218.5	244.8	271.0	337.4	515.8	987.4	1446.5	1803.3	2178.0	1323.4
65°	178.4	185.3	203.3	217.1	248.9	286.3	348.5	402.4	493.7	511.7	291.8
67.5°	145.2	150.7	167.3	182.5	188.1	154.9	160.4	141.1	141.1	125.8	101.0
70°	106.5	107.9	127.2	145.2	116.2	62.2	109.2	109.2	98.2	94.0	85.7
72.5°	78.8	80.2	95.4	89.9	45.6	38.7	80.2	88.5	80.2	76.1	69.1
75°	58.1	59.5	49.8	20.7	19.4	24.9	47.0	60.8	58.1	56.7	52.5
77.5°	11.1	8.3	6.9	9.7	13.8	20.7	30.4	37.3	38.7	41.5	38.7
80°	1.4	1.4	4.1	8.3	15.2	22.1	31.8	36.0	37.3	38.7	36.0
82.5°	0.0	1.4	4.1	8.3	15.2	20.7	27.7	31.8	34.6	36.0	34.6
85°	0.0	1.4	2.8	6.9	12.4	15.2	13.8	9.7	8.3	9.7	6.9
87.5°	0.0	0.0	1.4	1.4	2.8	2.8	2.8	2.8	2.8	2.8	2.8
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°	871.2	871.2	871.2	871.2	871.2	871.2	871.2	871.2	871.2	871.2	871.2
2.5°	882.3	876.7	857.4	836.6	818.7	827.0	818.7	811.8	814.5	811.8	809.0
5°	930.7	905.8	864.3	846.3	831.1	829.7	825.6	824.2	825.6	825.6	813.1
7.5°	976.3	936.2	892.0	872.6	854.6	856.0	846.3	846.3	844.9	838.0	835.3
10°	1045.5	991.5	934.8	900.3	878.1	874.0	864.3	854.6	854.6	854.6	840.8
12.5°	1121.5	1053.8	976.3	936.2	909.9	889.2	874.0	871.2	856.0	853.2	846.3
15°	1187.9	1102.2	1004.0	948.7	915.5	887.8	864.3	849.1	842.2	838.0	832.5
17.5°	1252.9	1143.6	1019.2	948.7	912.7	880.9	856.0	842.2	825.6	828.3	817.3
20°	1340.0	1187.9	1023.3	930.7	886.4	856.0	822.8	815.9	806.2	797.9	800.7
22.5°	1424.4	1219.7	1010.9	908.6	844.9	809.0	792.4	784.1	779.9	773.0	763.3
25°	1500.4	1254.3	991.5	868.4	800.7	774.4	759.2	757.8	748.1	748.1	730.2
27.5°	1577.9	1266.7	958.3	821.4	762.0	746.8	739.8	737.1	732.9	723.2	710.8
30°	1666.4	1270.9	909.9	773.0	727.4	710.8	720.5	727.4	709.4	691.4	697.0
32.5°	1739.7	1261.2	851.9	727.4	702.5	694.2	713.6	720.5	699.7	680.4	670.7
35°	1828.2	1237.7	795.2	691.4	677.6	694.2	710.8	710.8	669.3	645.8	640.3
37.5°	1962.3	1211.4	742.6	661.0	651.3	685.9	708.0	692.8	627.8	598.8	591.9
40°	2106.1	1194.8	691.4	630.6	637.5	672.1	684.5	637.5	571.1	553.2	547.6
42.5°	2314.9	1161.6	645.8	604.3	625.1	652.7	652.7	568.4	543.5	533.8	532.4
45°	2574.9	1138.1	605.7	582.2	607.1	614.0	591.9	532.4	514.4	511.7	513.0
47.5°	2702.1	1092.5	564.2	555.9	573.9	575.3	517.2	503.4	488.2	484.0	481.2
50°	2682.8	1010.9	510.3	521.3	546.2	532.4	471.6	474.3	460.5	459.1	452.2
52.5°	2547.3	882.3	456.4	482.6	510.3	470.2	434.2	431.5	431.5	413.5	406.6
55°	2258.2	710.8	391.4	424.5	457.7	395.5	385.8	383.1	376.1	359.5	355.4
57.5°	1788.1	521.3	294.6	330.5	388.6	336.0	334.7	322.2	304.2	291.8	291.8
60°	1063.4	300.1	185.3	201.9	257.2	272.4	302.9	297.3	266.9	247.5	242.0
62.5°	485.4	154.9	117.5	120.3	138.3	177.0	237.9	275.2	232.3	199.1	196.4
65°	163.2	114.8	96.8	92.7	95.4	106.5	142.4	195.0	185.3	153.5	148.0
67.5°	99.6	102.3	91.3	84.4	84.4	83.0	81.6	88.5	109.2	106.5	107.9
70°	85.7	94.0	84.4	76.1	73.3	69.1	58.1	48.4	41.5	48.4	51.2
72.5°	69.1	74.7	71.9	65.0	58.1	52.5	41.5	31.8	23.5	20.7	20.7
75°	51.2	55.3	58.1	49.8	44.3	37.3	30.4	20.7	12.4	8.3	8.3
77.5°	37.3	41.5	42.9	38.7	33.2	26.3	19.4	13.8	6.9	2.8	2.8
80°	31.8	37.3	41.5	38.7	34.6	24.9	18.0	9.7	5.5	1.4	1.4
82.5°	30.4	37.3	41.5	37.3	33.2	23.5	18.0	11.1	4.1	1.4	1.4
85°	6.9	9.7	12.4	15.2	18.0	18.0	13.8	8.3	4.1	1.4	1.4
87.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	1.4	1.4	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)