

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: P527955

Luminaire Tested: **GALN-SA3A-730-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527955
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-730-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 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: 8223 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B1 - U0 - G0

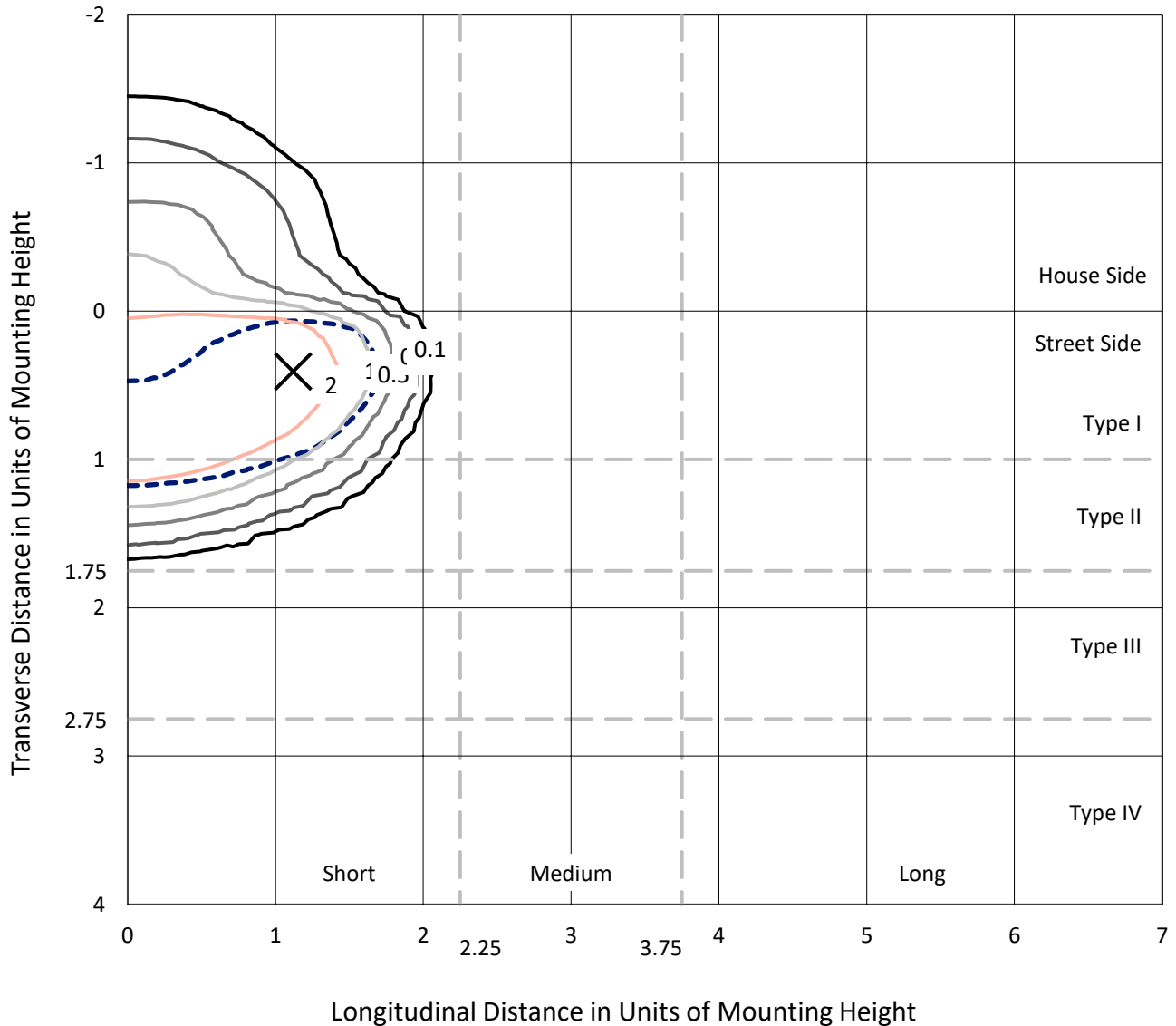
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P527955
 CATALOG NUMBER: GALN-SA3A-730-U-T2R-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

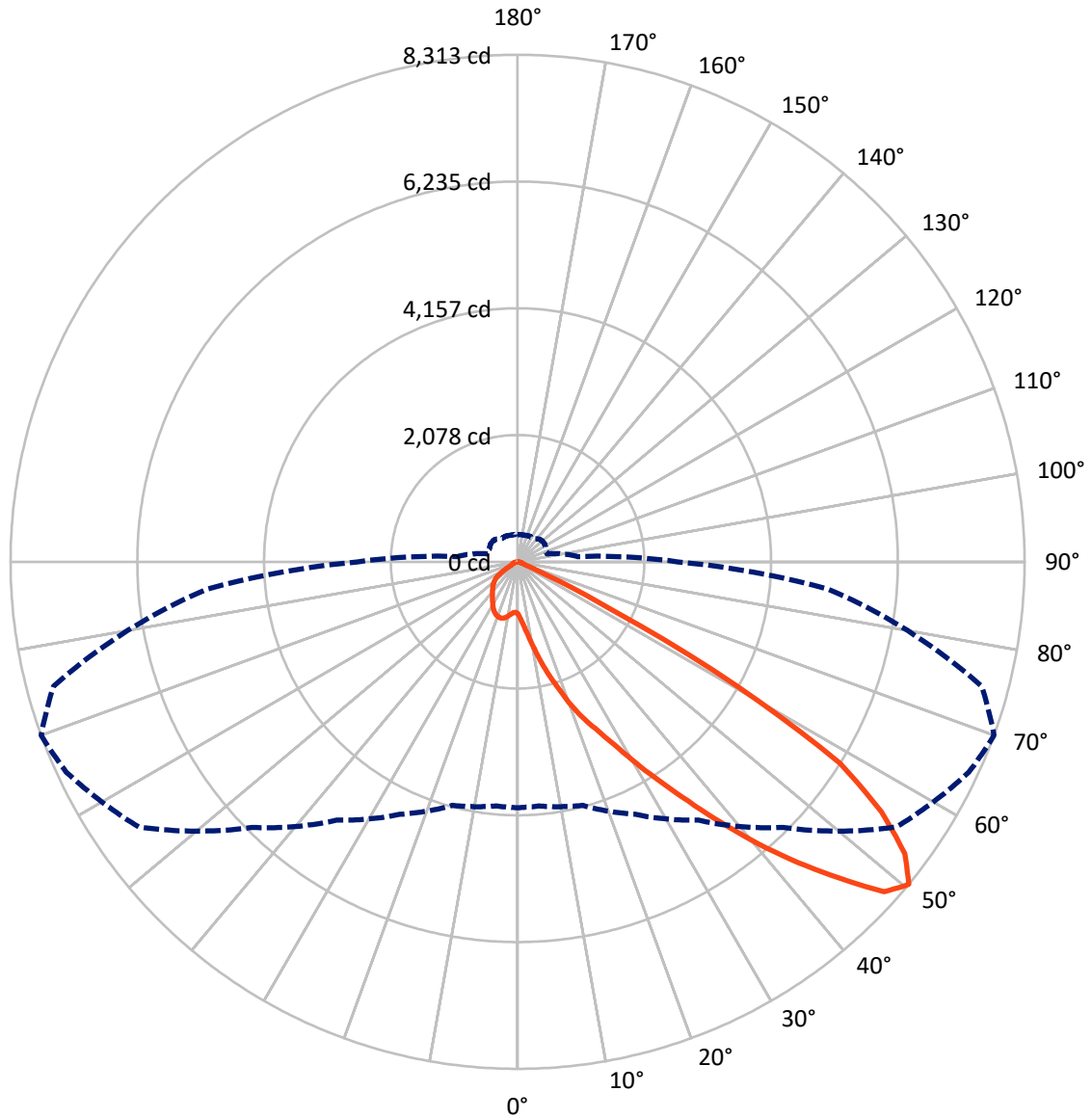
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type I - Short - N/A

REPORT NUMBER: P527955
CATALOG NUMBER: GALN-SA3A-730-U-T2R-GRSBK

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: GALN-SA3A-730-U-T2R-GRSBK

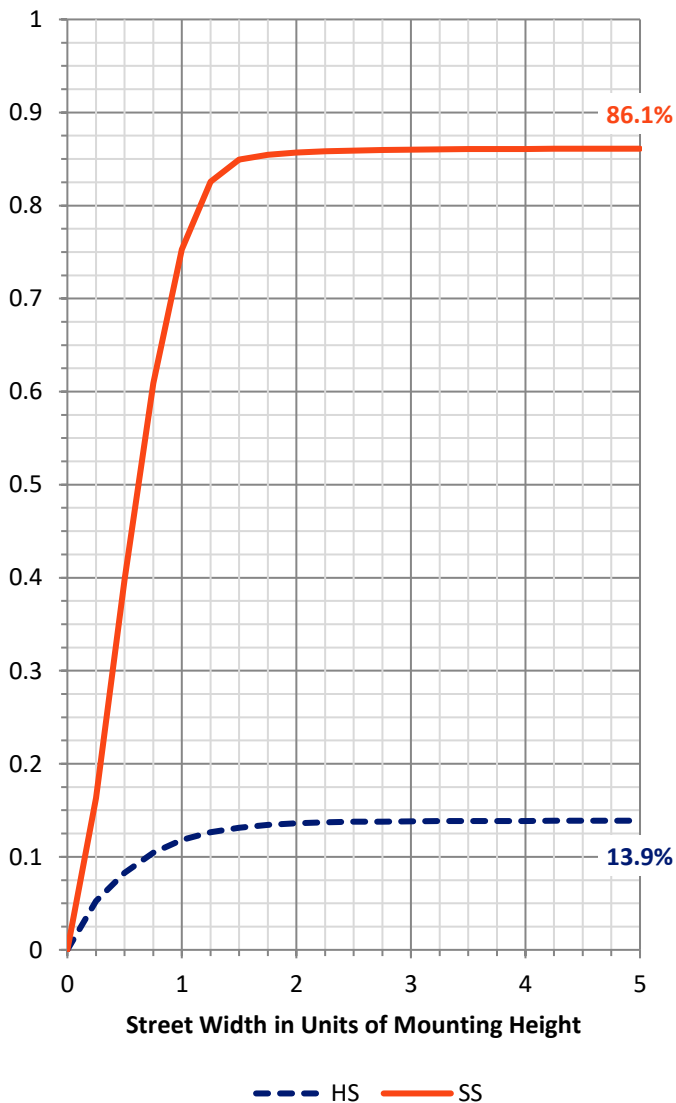
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1148.4	0.0	1148.4
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	7074.6	0.0	7074.6
	% Fixture	86.0	0.0	86.0
Total	Lumens	8223.0	0.0	8223.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.8	1.3
10°-20°	479.1	5.8
20°-30°	1005.1	12.2
30°-40°	1732.4	21.1
40°-50°	2531.9	30.8
50°-60°	1971.9	24.0
60°-70°	334.1	4.1
70°-80°	45.9	0.6
80°-90°	11.9	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°	8223.0	100.0
0°-180°	8223.0	100.0

Coefficient of Utilization



REPORT NUMBER: P527955

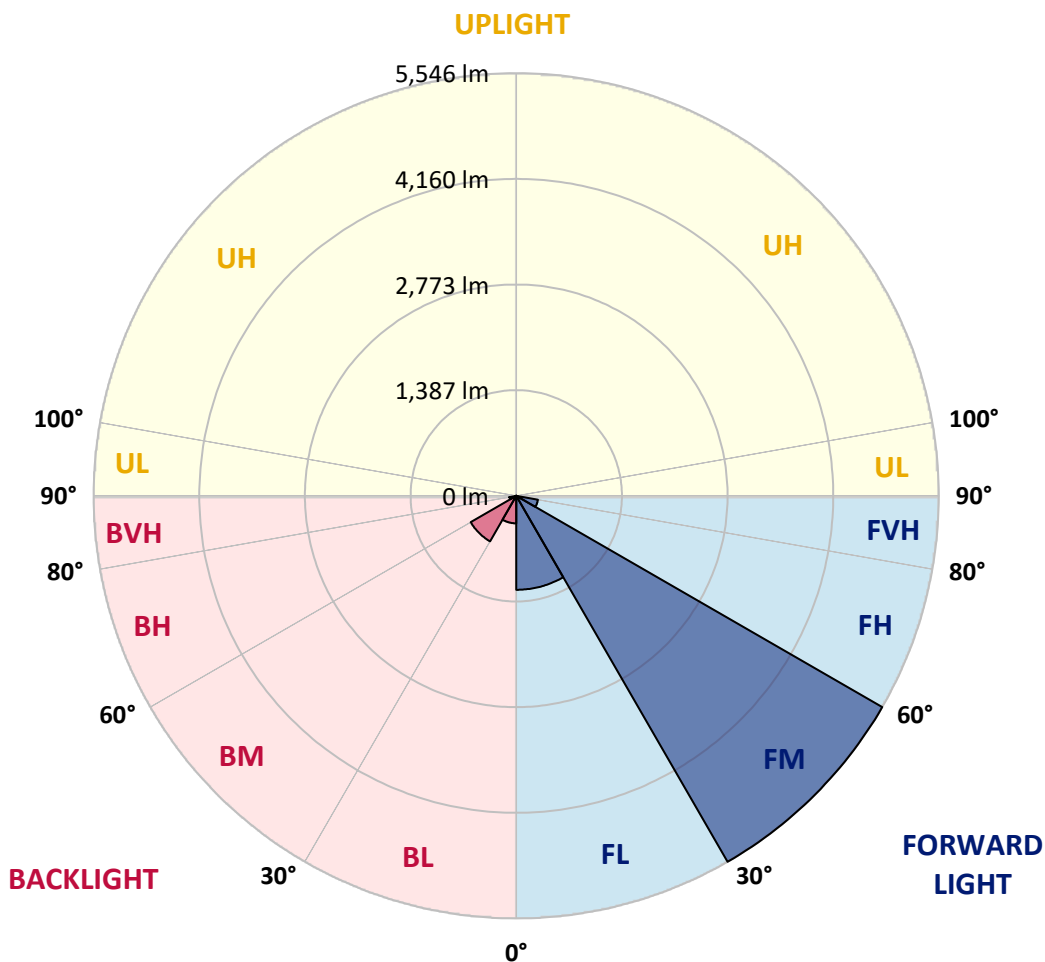
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1233.5	15.0			
FM (30°-60°)	5546.3	67.4			
FH (60°-80°)	289.3	3.5			G0/660
FVH (80°-90°)	5.5	0.1			G0/10
BL (0°-30°)	361.4	4.4	B1/500		
BM (30°-60°)	689.9	8.4	B1/1000		
BH (60°-80°)	90.7	1.1	B0/110		G0/110
BVH (80°-90°)	6.4	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





REPORT NUMBER: P527955

CATALOG NUMBER: GALN-SA3A-730-U-T2R-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	851.7	851.7	851.7	851.7	851.7	851.7	851.7	851.7	851.7	851.7	851.7
2.5°	1115.4	1107.3	1089.7	1057.2	1043.7	1011.3	992.3	955.8	932.9	907.2	878.8
5°	1571.0	1529.1	1503.4	1466.9	1360.1	1293.8	1184.3	1091.0	1047.8	1000.5	935.6
7.5°	2041.5	2014.4	1979.3	1900.9	1827.9	1690.0	1502.0	1296.5	1208.7	1127.5	999.1
10°	2430.8	2355.1	2351.1	2292.9	2213.2	2048.2	1822.5	1566.9	1410.1	1291.1	1089.7
12.5°	2702.6	2633.6	2664.7	2658.0	2583.6	2432.2	2171.3	1833.3	1669.7	1484.5	1183.0
15°	2950.0	2921.6	2912.1	2904.0	2874.3	2762.1	2528.2	2157.7	1921.1	1698.1	1288.4
17.5°	3192.0	3119.0	3154.1	3160.9	3158.2	3056.8	2837.8	2466.0	2187.5	1923.9	1399.3
20°	3407.0	3413.7	3366.4	3356.9	3348.8	3344.8	3131.2	2771.5	2514.7	2160.4	1543.9
22.5°	3682.8	3635.4	3677.4	3650.3	3597.6	3565.1	3401.6	3041.9	2798.6	2445.7	1691.3
25°	4008.6	4046.4	3947.8	3936.9	3878.8	3766.6	3619.2	3344.8	3071.7	2710.7	1850.8
27.5°	4410.1	4343.9	4318.2	4258.7	4153.3	4105.9	3932.9	3657.1	3401.6	2989.2	2005.0
30°	4754.9	4737.3	4608.9	4538.6	4446.6	4445.3	4203.3	4080.2	3831.5	3425.9	2217.2
32.5°	5036.1	4959.0	4911.7	4863.0	4788.7	4809.0	4604.8	4539.9	4289.8	3831.5	2467.3
35°	5224.0	5168.6	5140.2	5065.8	5044.2	5134.8	5049.6	5022.6	4817.1	4402.0	2760.7
37.5°	5283.5	5301.1	5295.7	5202.4	5248.3	5493.1	5602.6	5532.3	5424.1	5003.6	3078.4
40°	5336.2	5348.4	5321.4	5430.9	5562.0	5840.5	6236.6	6120.4	6079.8	5613.4	3520.5
42.5°	5366.0	5356.5	5356.5	5545.8	5744.5	6304.2	6849.1	6772.0	6740.9	6262.3	4031.6
45°	5237.5	5145.6	5244.3	5501.2	5901.3	6532.7	7338.5	7445.3	7400.7	7034.3	4629.1
47.5°	4757.6	4814.4	4869.8	5213.2	5710.7	6462.4	7638.6	8002.3	8084.8	7683.2	5021.2
50°	4031.6	4019.4	4134.3	4567.0	5171.3	6159.6	7580.5	8163.2	8313.3	7877.9	5103.7
52.5°	2932.4	3021.7	3146.0	3576.0	4292.5	5375.4	6830.2	7748.1	7948.2	7638.6	5049.6
55°	1707.5	1608.8	1888.7	2252.4	2928.4	4054.6	5774.3	6868.0	7238.4	7203.3	4776.5
57.5°	684.1	662.5	758.5	1022.1	1527.7	2513.3	4199.2	5643.1	6236.6	6597.6	4197.9
60°	300.1	293.4	344.8	416.4	624.6	1158.6	2297.0	3509.7	4128.9	4610.2	2889.2
62.5°	216.3	213.6	239.3	265.0	329.9	504.3	965.3	1414.2	1763.0	2129.4	1293.8
65°	174.4	181.2	198.7	212.3	243.4	279.9	340.7	393.4	482.7	500.2	285.3
67.5°	142.0	147.4	163.6	178.5	183.9	151.4	156.8	137.9	137.9	123.0	98.7
70°	104.1	105.5	124.4	142.0	113.6	60.8	106.8	106.8	96.0	91.9	83.8
72.5°	77.1	78.4	93.3	87.9	44.6	37.9	78.4	86.5	78.4	74.4	67.6
75°	56.8	58.1	48.7	20.3	18.9	24.3	46.0	59.5	56.8	55.4	51.4
77.5°	10.8	8.1	6.8	9.5	13.5	20.3	29.7	36.5	37.9	40.6	37.9
80°	1.4	1.4	4.1	8.1	14.9	21.6	31.1	35.2	36.5	37.9	35.2
82.5°	0.0	1.4	4.1	8.1	14.9	20.3	27.0	31.1	33.8	35.2	33.8
85°	0.0	1.4	2.7	6.8	12.2	14.9	13.5	9.5	8.1	9.5	6.8
87.5°	0.0	0.0	1.4	1.4	2.7	2.7	2.7	2.7	2.7	2.7	2.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P527955
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	851.7	851.7	851.7	851.7	851.7	851.7	851.7	851.7	851.7	851.7	851.7
2.5°	862.6	857.1	838.2	817.9	800.4	808.5	800.4	793.6	796.3	793.6	790.9
5°	909.9	885.5	845.0	827.4	812.5	811.2	807.1	805.8	807.1	807.1	795.0
7.5°	954.5	915.3	872.0	853.1	835.5	836.9	827.4	827.4	826.1	819.3	816.6
10°	1022.1	969.4	913.9	880.1	858.5	854.4	845.0	835.5	835.5	835.5	822.0
12.5°	1096.4	1030.2	954.5	915.3	889.6	869.3	854.4	851.7	836.9	834.2	827.4
15°	1161.3	1077.5	981.5	927.5	895.0	868.0	845.0	830.1	823.3	819.3	813.9
17.5°	1224.9	1118.1	996.4	927.5	892.3	861.2	836.9	823.3	807.1	809.8	799.0
20°	1310.1	1161.3	1000.5	909.9	866.6	836.9	804.4	797.7	788.2	780.1	782.8
22.5°	1392.5	1192.4	988.3	888.2	826.1	790.9	774.7	766.6	762.5	755.8	746.3
25°	1466.9	1226.2	969.4	849.0	782.8	757.1	742.2	740.9	731.4	731.4	713.8
27.5°	1542.6	1238.4	936.9	803.1	744.9	730.1	723.3	720.6	716.5	707.1	694.9
30°	1629.1	1242.5	889.6	755.8	711.1	694.9	704.4	711.1	693.6	676.0	681.4
32.5°	1700.8	1233.0	832.8	711.1	686.8	678.7	697.6	704.4	684.1	665.2	655.7
35°	1787.3	1210.0	777.4	676.0	662.5	678.7	694.9	694.9	654.4	631.4	626.0
37.5°	1918.4	1184.3	726.0	646.2	636.8	670.6	692.2	677.3	613.8	585.4	578.6
40°	2059.0	1168.1	676.0	616.5	623.3	657.1	669.2	623.3	558.4	540.8	535.4
42.5°	2263.2	1135.7	631.4	590.8	611.1	638.1	638.1	555.7	531.3	521.9	520.5
45°	2517.4	1112.7	592.2	569.2	593.5	600.3	578.6	520.5	502.9	500.2	501.6
47.5°	2641.7	1068.1	551.6	543.5	561.1	562.4	505.6	492.1	477.2	473.2	470.5
50°	2622.8	988.3	498.9	509.7	534.0	520.5	461.0	463.7	450.2	448.9	442.1
52.5°	2490.3	862.6	446.1	471.8	498.9	459.7	424.5	421.8	421.8	404.2	397.5
55°	2207.8	694.9	382.6	415.1	447.5	386.7	377.2	374.5	367.7	351.5	347.5
57.5°	1748.1	509.7	288.0	323.1	379.9	328.5	327.2	315.0	297.4	285.3	285.3
60°	1039.7	293.4	181.2	197.4	251.5	266.3	296.1	290.7	260.9	242.0	236.6
62.5°	474.5	151.4	114.9	117.6	135.2	173.1	232.5	269.0	227.1	194.7	192.0
65°	159.5	112.2	94.6	90.6	93.3	104.1	139.3	190.6	181.2	150.1	144.7
67.5°	97.3	100.0	89.2	82.5	82.5	81.1	79.8	86.5	106.8	104.1	105.5
70°	83.8	91.9	82.5	74.4	71.7	67.6	56.8	47.3	40.6	47.3	50.0
72.5°	67.6	73.0	70.3	63.5	56.8	51.4	40.6	31.1	23.0	20.3	20.3
75°	50.0	54.1	56.8	48.7	43.3	36.5	29.7	20.3	12.2	8.1	8.1
77.5°	36.5	40.6	41.9	37.9	32.4	25.7	18.9	13.5	6.8	2.7	2.7
80°	31.1	36.5	40.6	37.9	33.8	24.3	17.6	9.5	5.4	1.4	1.4
82.5°	29.7	36.5	40.6	36.5	32.4	23.0	17.6	10.8	4.1	1.4	1.4
85°	6.8	9.5	12.2	14.9	17.6	17.6	13.5	8.1	4.1	1.4	1.4
87.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	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)