

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: P382814

Luminaire Tested: **GLEON-SA1D-735-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382814
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA1D-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5514.8 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

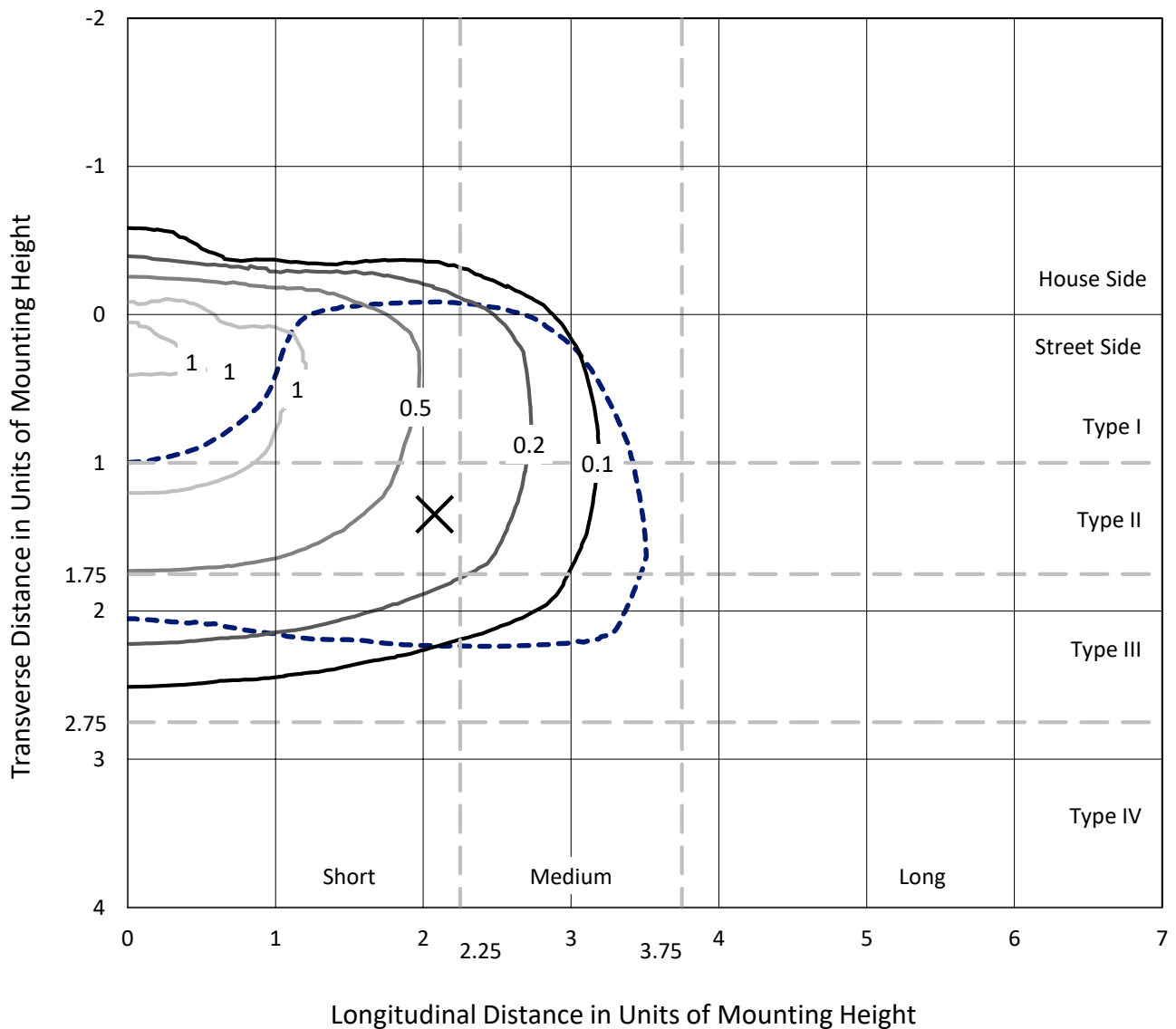
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

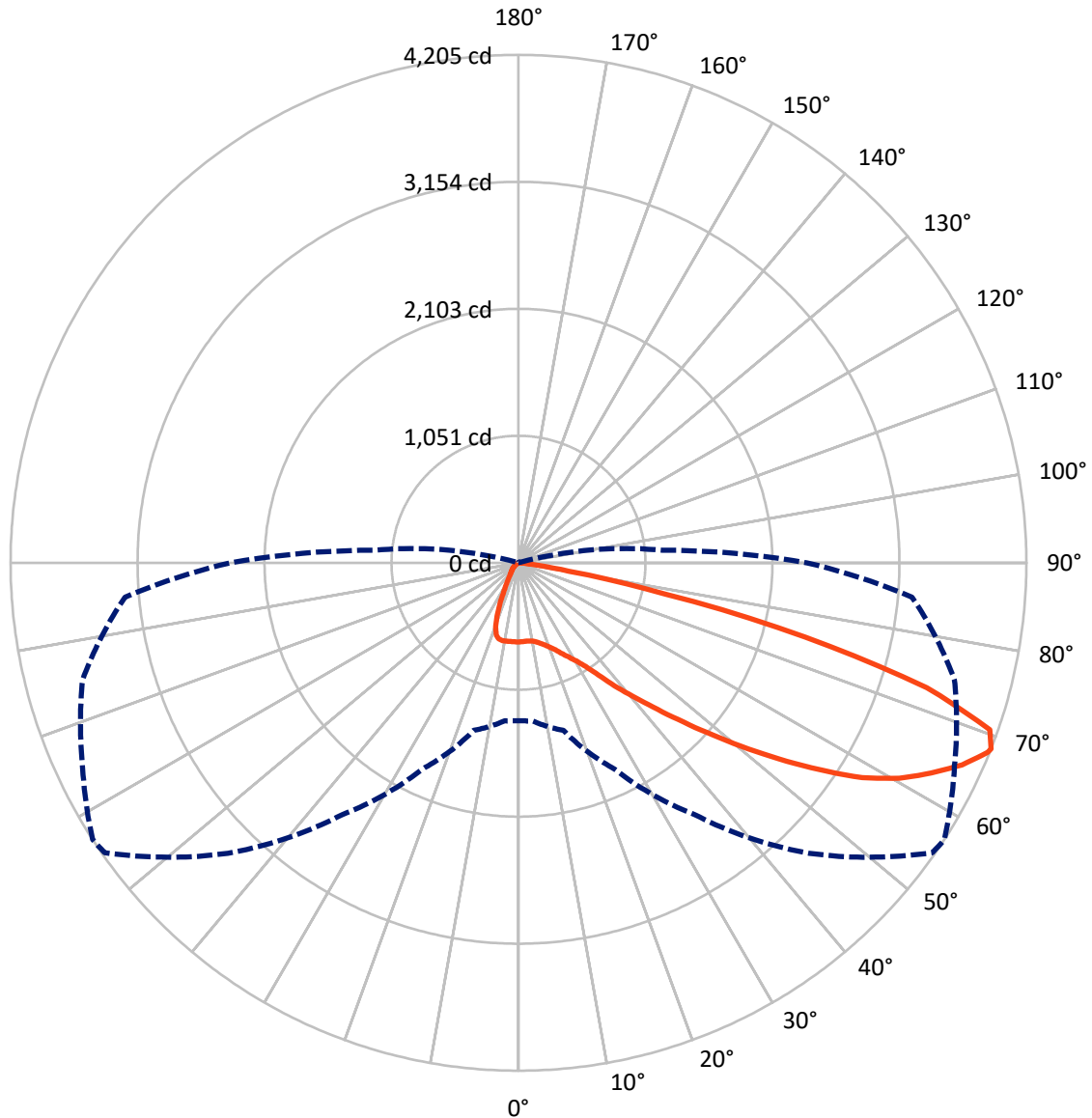
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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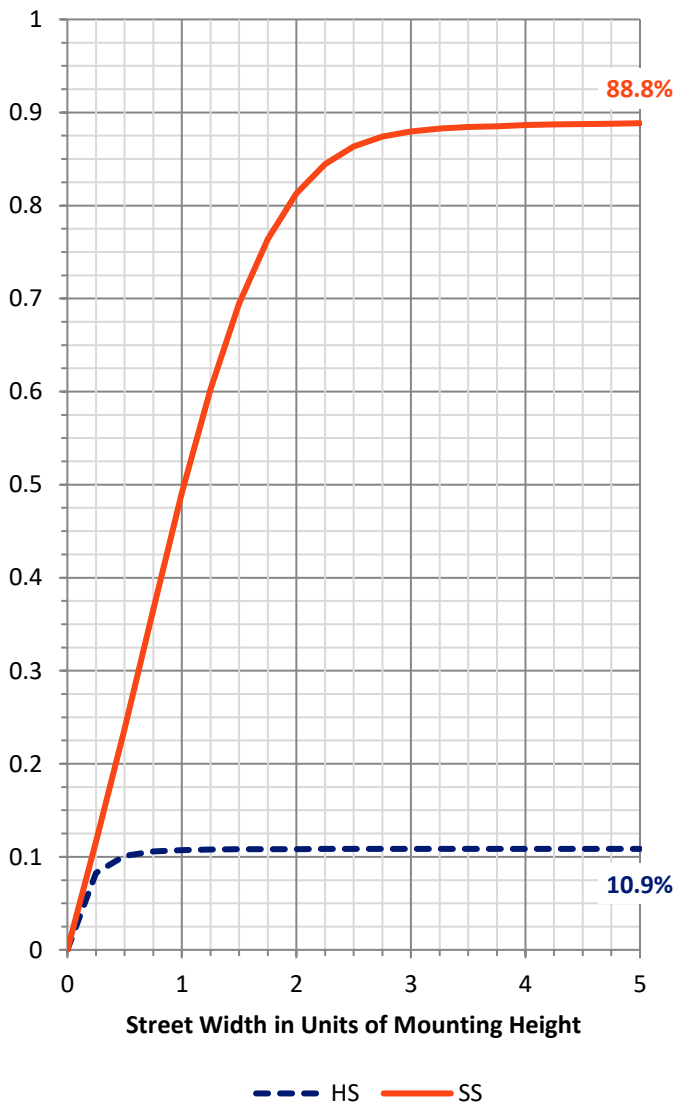
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	604.7	0.0	604.7
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	4910.0	0.0	4910.0
	% Fixture	89.0	0.0	89.0
Total	Lumens	5514.8	0.0	5514.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.3	1.1
10°-20°	169.9	3.1
20°-30°	293.2	5.3
30°-40°	506.0	9.2
40°-50°	865.5	15.7
50°-60°	1384.7	25.1
60°-70°	1599.9	29.0
70°-80°	611.3	11.1
80°-90°	22.9	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°	5514.8	100.0
0°-180°	5514.8	100.0

Coefficient of Utilization

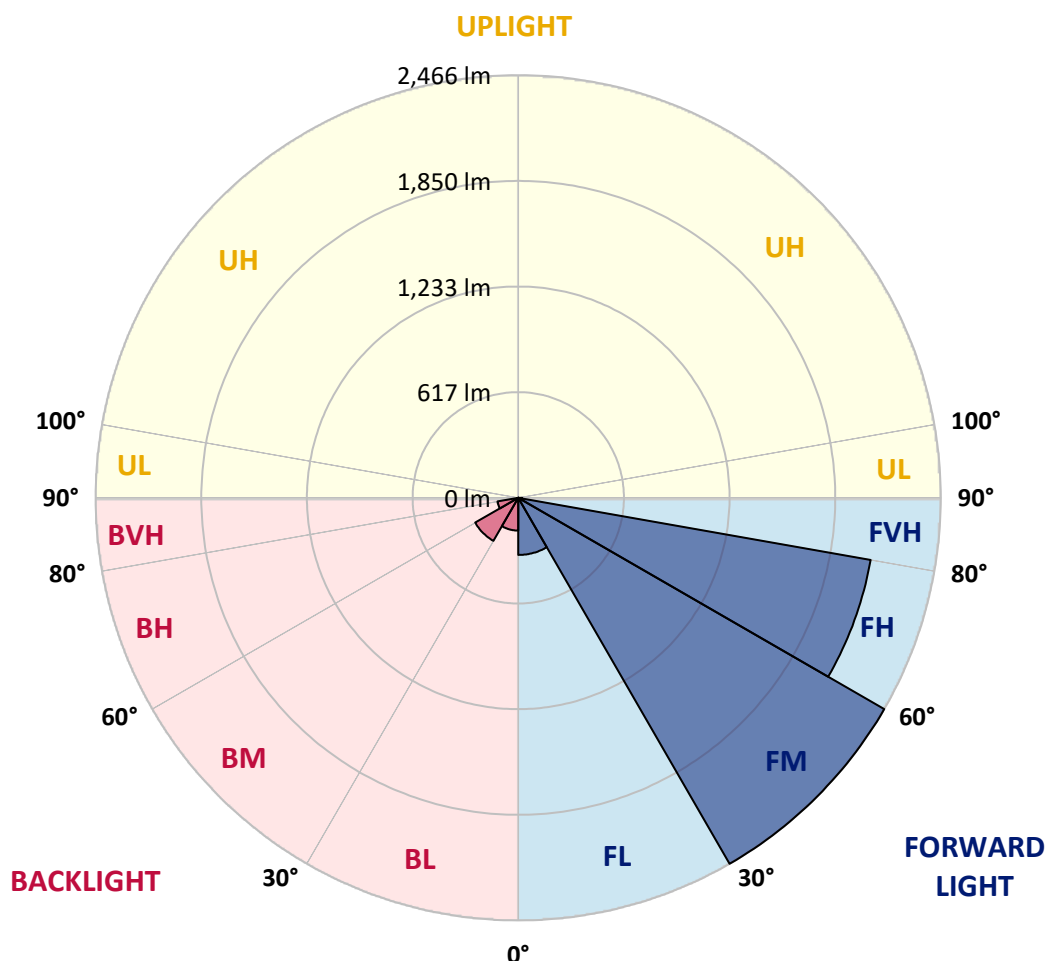


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	333.3	6.0			
FM (30°-60°)	2466.2	44.7			
FH (60°-80°)	2088.1	37.9			G2/5000
FVH (80°-90°)	22.5	0.4			G1/100
BL (0°-30°)	191.1	3.5	B1/500		
BM (30°-60°)	290.0	5.3	B1/1000		
BH (60°-80°)	123.2	2.2	B1/500		G1/500
BVH (80°-90°)	0.4	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°	57°	65°	75°	85°
0°	655.3	655.3	655.3	655.3	655.3	655.3	655.3	655.3	655.3	655.3	655.3
2.5°	639.9	642.8	644.9	646.2	647.7	651.2	652.2	653.8	654.5	654.5	656.4
5°	614.6	617.7	622.2	625.8	633.2	642.5	649.3	651.9	656.6	660.7	663.1
7.5°	591.2	594.8	600.0	608.6	621.2	636.2	650.3	654.0	663.1	672.0	676.4
10°	576.1	578.9	585.7	598.0	614.4	635.5	655.3	659.7	675.4	690.3	698.6
12.5°	570.9	573.5	580.4	594.2	614.6	639.4	666.8	673.3	696.2	717.9	729.6
15°	578.4	578.9	586.5	599.5	619.6	649.0	685.8	693.6	722.6	750.7	765.4
17.5°	607.6	605.2	609.1	614.9	630.8	661.9	705.9	717.7	756.2	789.3	803.2
20°	680.6	680.6	671.7	656.1	656.4	681.6	733.0	746.3	793.5	831.9	844.4
22.5°	805.5	803.2	785.4	747.1	711.9	715.8	766.1	783.3	838.4	879.3	883.5
25°	955.7	952.8	925.5	871.5	810.4	771.0	811.0	830.8	891.8	928.1	919.4
27.5°	1114.8	1112.5	1085.3	1018.3	931.5	859.3	864.5	883.2	946.3	982.0	954.6
30°	1268.9	1269.7	1242.8	1173.9	1075.7	971.6	932.2	943.2	999.3	1035.5	996.4
32.5°	1415.4	1416.5	1393.2	1316.4	1224.5	1102.2	1026.1	1023.2	1060.8	1096.5	1051.6
35°	1546.1	1548.7	1532.8	1473.1	1375.8	1247.7	1147.9	1141.1	1148.1	1188.6	1136.4
37.5°	1672.0	1673.6	1661.6	1611.3	1529.9	1407.6	1301.7	1292.1	1277.0	1308.0	1248.3
40°	1810.0	1806.1	1792.2	1746.6	1676.7	1584.1	1467.1	1450.3	1424.1	1451.6	1395.4
42.5°	1938.3	1933.8	1936.1	1884.5	1825.6	1765.7	1659.7	1631.0	1615.7	1647.5	1575.8
45°	2098.6	2096.3	2104.1	2059.3	2011.5	1968.0	1880.6	1849.3	1842.6	1879.9	1794.1
47.5°	2257.0	2262.6	2286.9	2267.9	2248.6	2210.2	2114.5	2100.5	2104.6	2149.7	2024.3
50°	2388.9	2395.7	2462.2	2484.1	2511.9	2489.5	2393.5	2384.9	2401.3	2442.1	2272.0
52.5°	2484.3	2498.1	2580.8	2681.7	2783.4	2798.6	2702.8	2695.0	2717.1	2723.4	2463.5
55°	2550.5	2562.8	2656.4	2841.0	3048.0	3113.2	3053.8	3023.5	3019.4	2957.6	2664.8
57.5°	2562.2	2560.9	2695.5	2944.1	3255.7	3423.8	3386.3	3356.6	3271.0	3174.0	2895.5
60°	2496.0	2503.6	2659.8	2979.7	3386.0	3658.7	3661.6	3623.1	3489.8	3384.4	3119.3
62.5°	2292.1	2322.9	2480.6	2886.1	3384.4	3753.4	3863.5	3834.0	3674.7	3556.8	3346.1
65°	1961.5	1972.5	2122.9	2565.4	3155.8	3713.8	4045.2	4034.3	3841.3	3724.2	3462.7
67.5°	1432.3	1408.7	1566.7	2020.2	2671.8	3482.8	4175.6	4189.4	3969.9	3758.6	3338.6
68°	1307.2	1314.2	1437.3	1885.4	2545.1	3401.2	4184.2	4205.4	3982.6	3736.3	3270.8
70°	779.1	792.7	902.5	1298.1	1936.1	2939.3	4091.4	4139.6	3906.5	3504.9	2829.0
72.5°	199.0	215.1	318.9	581.0	1105.9	2071.0	3453.8	3535.4	3391.8	2843.4	1909.9
75°	81.9	86.1	113.9	191.4	412.0	933.0	2276.4	2451.2	2351.3	1702.3	863.2
77.5°	56.5	59.4	73.3	106.1	178.4	316.3	1116.1	1242.3	1119.2	581.0	188.3
80°	40.7	43.0	52.4	70.7	102.5	112.9	363.8	420.6	334.1	127.5	46.7
82.5°	24.2	26.1	39.1	50.3	62.3	53.9	90.5	102.7	96.8	63.3	20.9
85°	12.0	14.1	26.4	36.0	33.6	22.7	27.7	30.7	38.1	38.6	11.2
87.5°	0.7	1.6	15.4	21.6	9.4	5.2	8.1	9.9	13.6	19.0	4.7
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°	655.3	655.3	655.3	655.3	655.3	655.3	655.3	655.3	655.3	655.3	655.3
2.5°	657.1	657.4	655.5	654.8	655.3	652.2	650.9	651.4	651.4	652.2	650.9
5°	663.6	663.6	660.6	656.4	654.0	648.0	644.1	643.0	642.3	641.7	640.7
7.5°	677.7	676.1	670.7	661.6	653.8	640.7	630.8	625.5	622.9	621.9	621.2
10°	700.4	697.5	688.4	671.5	653.5	630.3	608.6	593.2	580.4	575.2	572.2
12.5°	730.9	726.8	711.3	683.2	651.6	608.9	561.9	516.8	474.8	457.7	449.0
15°	766.1	760.1	735.8	693.1	641.0	560.6	458.7	379.7	321.5	299.6	290.3
17.5°	801.9	794.1	757.3	699.4	608.9	460.7	321.8	243.0	204.2	193.8	190.1
20°	837.8	826.4	775.8	694.7	536.4	332.2	212.3	177.6	166.4	163.2	162.2
22.5°	872.0	854.2	792.5	676.4	424.8	222.9	168.0	157.0	153.3	151.5	151.0
25°	901.7	877.0	807.1	620.1	300.7	168.4	151.3	147.6	142.9	139.5	139.7
27.5°	929.6	899.6	815.9	527.3	200.6	143.9	140.0	135.1	126.5	121.5	121.5
30°	963.2	929.9	822.5	405.8	147.6	127.2	124.1	116.5	104.8	98.3	98.3
32.5°	1013.8	975.8	818.3	284.8	122.3	111.9	104.6	94.2	81.3	75.1	74.8
35°	1091.3	1046.7	788.6	186.7	108.0	97.3	85.5	72.8	61.6	56.4	56.1
37.5°	1195.6	1141.6	721.8	133.5	96.8	83.7	69.6	55.5	47.2	43.8	43.5
40°	1330.9	1251.9	626.4	108.2	86.4	70.7	53.8	43.0	37.3	34.7	34.9
42.5°	1493.4	1370.0	511.9	93.3	76.1	58.1	42.0	33.9	30.3	28.4	27.9
45°	1673.8	1486.7	391.9	83.2	66.0	46.9	32.9	26.8	24.0	22.9	22.9
47.5°	1872.3	1600.0	286.8	74.3	55.1	36.2	26.4	21.9	19.6	18.8	18.5
50°	2052.5	1678.8	206.8	64.9	45.1	28.7	21.4	18.3	16.7	15.6	15.6
52.5°	2202.6	1703.6	152.3	54.8	36.5	22.9	17.7	15.6	14.1	13.3	13.3
55°	2334.9	1693.4	113.2	45.1	29.4	18.8	15.1	13.3	12.0	11.2	11.2
57.5°	2461.6	1660.6	84.5	36.8	23.8	15.1	12.8	11.2	9.9	9.4	9.4
60°	2565.1	1605.8	62.9	29.7	19.0	12.3	10.7	9.1	8.1	7.3	7.3
62.5°	2649.1	1545.3	46.1	24.5	15.1	9.7	8.4	7.5	6.0	5.2	5.2
65°	2649.6	1444.9	34.7	20.3	11.7	7.5	6.2	6.0	3.9	3.2	2.9
67.5°	2458.0	1245.7	26.6	17.5	9.1	5.8	4.7	4.9	2.0	1.3	1.0
68°	2388.3	1195.1	25.1	17.2	8.6	5.5	4.5	4.9	1.9	1.0	0.7
70°	2013.6	950.7	20.1	16.7	7.5	4.2	3.6	4.9	1.6	0.7	0.6
72.5°	1288.0	551.8	14.9	13.3	5.8	3.2	2.3	4.5	1.6	0.6	0.3
75°	548.1	171.0	10.2	9.4	3.4	2.3	1.6	2.9	1.0	0.3	0.0
77.5°	115.5	38.6	6.0	5.8	2.3	1.6	1.0	0.7	0.3	0.0	0.0
80°	29.7	11.2	3.2	2.9	1.3	0.7	0.6	0.0	0.0	0.0	0.0
82.5°	9.4	4.5	1.9	1.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.7	2.6	1.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.6	0.7	0.3	0.0	0.0	0.0	0.0	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)