

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: P382782

Luminaire Tested: **GLEON-SA1C-735-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382782
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA1C-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4908.3 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

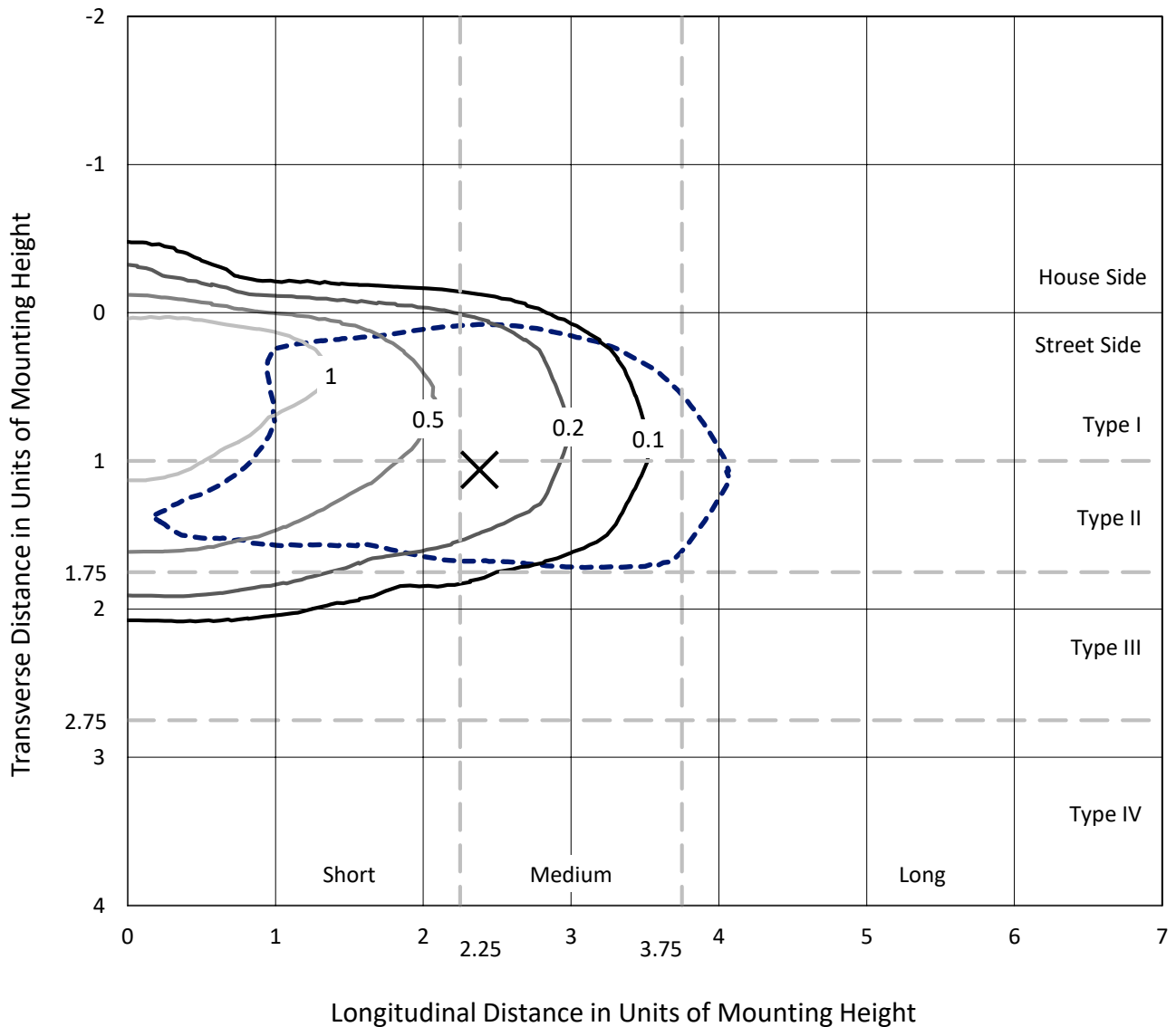
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

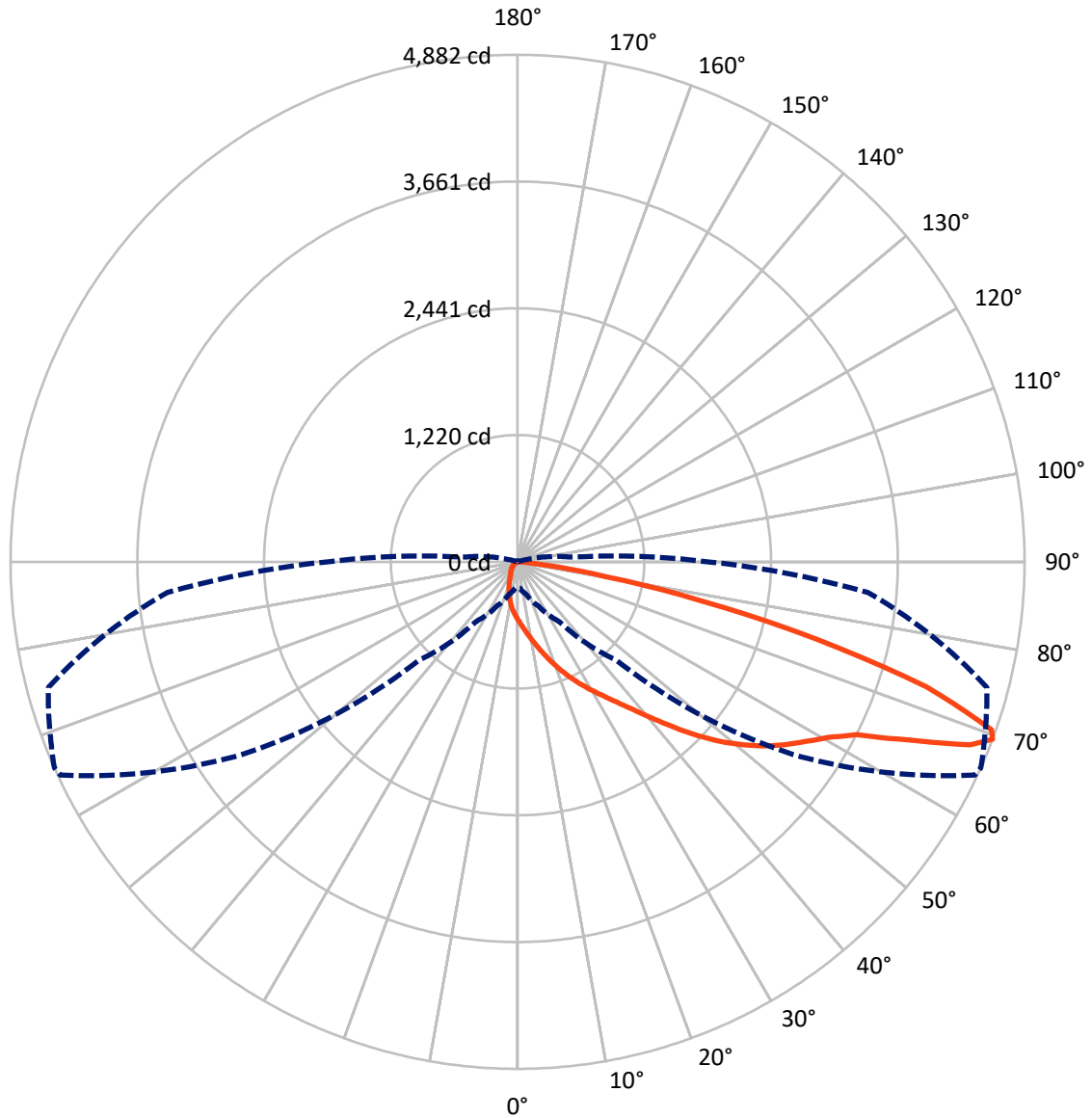
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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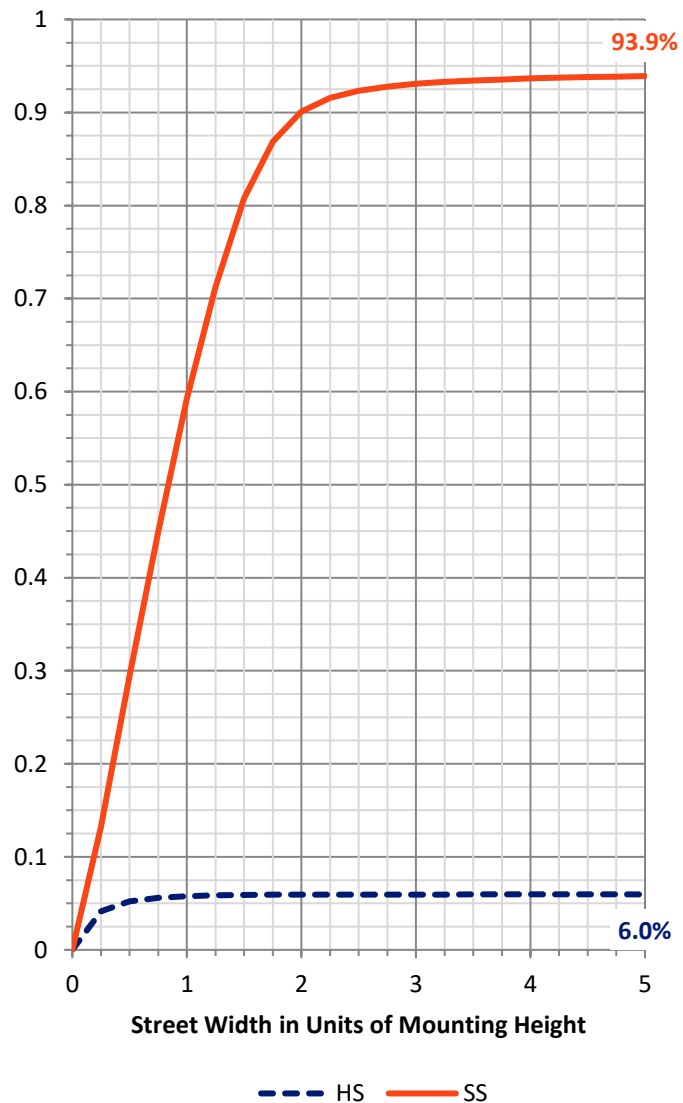
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	294.5	0.0	294.5
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	4613.9	0.0	4613.9
	% Fixture	94.0	0.0	94.0
Total	Lumens	4908.3	0.0	4908.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.0	1.1
10°-20°	160.7	3.3
20°-30°	279.8	5.7
30°-40°	491.0	10.0
40°-50°	821.8	16.7
50°-60°	1208.0	24.6
60°-70°	1240.3	25.3
70°-80°	612.3	12.5
80°-90°	40.5	0.8
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°	4908.3	100.0
0°-180°	4908.3	100.0

Coefficient of Utilization

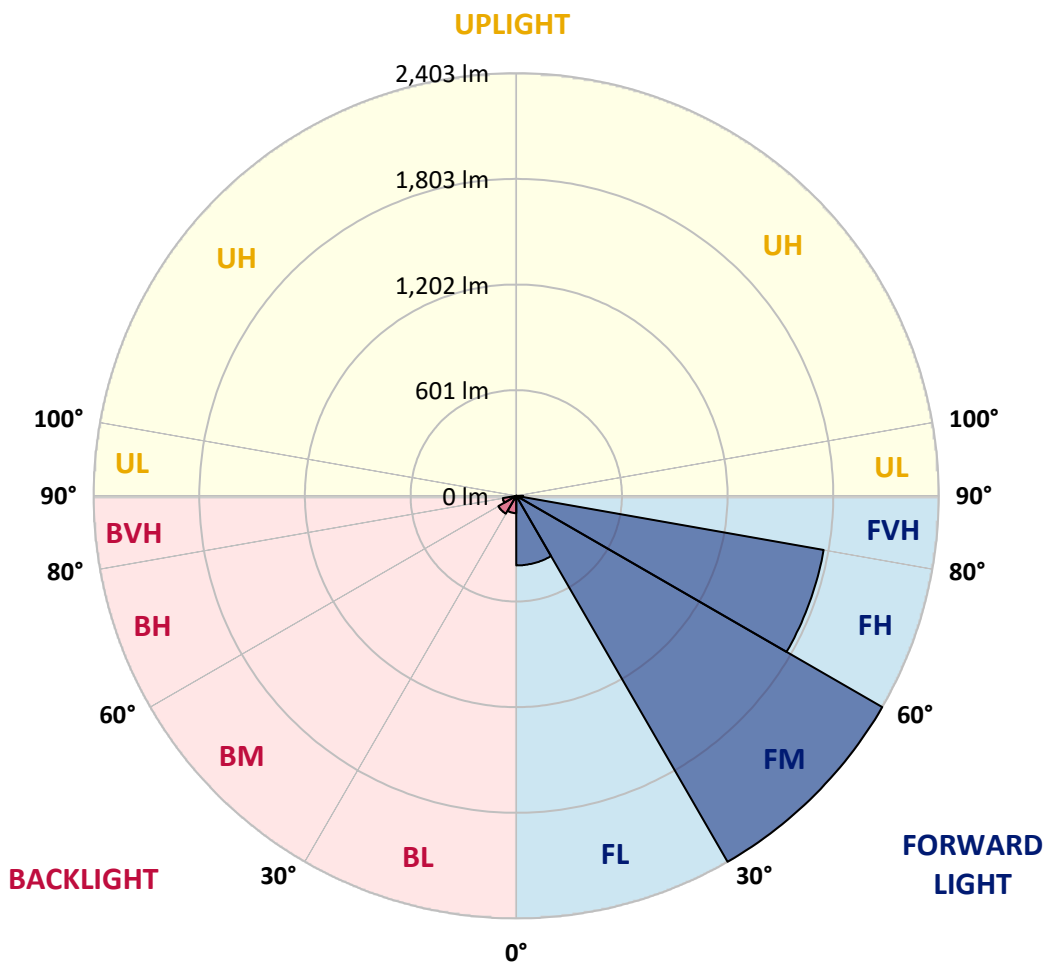


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	396.1	8.1			
FM (30°-60°)	2403.4	49.0			
FH (60°-80°)	1775.0	36.2			G1/1800
FVH (80°-90°)	39.5	0.8			G1/100
BL (0°-30°)	98.5	2.0	B0/110		
BM (30°-60°)	117.4	2.4	B0/220		
BH (60°-80°)	77.6	1.6	B0/110		G0/110
BVH (80°-90°)	1.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	558.6	558.6	558.6	558.6	558.6	558.6	558.6	558.6	558.6	558.6	558.6
2.5°	657.4	654.6	653.5	648.4	639.5	632.7	619.7	604.5	601.7	587.1	569.1
5°	742.7	740.4	738.8	731.5	722.5	705.5	681.7	653.5	648.1	620.1	584.3
7.5°	802.2	806.4	806.4	801.8	790.3	777.5	748.3	709.8	703.1	660.2	604.5
10°	836.9	842.0	846.0	850.0	848.4	843.2	815.8	772.3	764.2	707.3	628.0
12.5°	840.2	845.4	856.6	873.0	889.2	900.8	883.6	841.6	832.2	761.9	656.0
15°	822.0	827.4	844.6	876.8	915.7	949.8	955.4	918.3	908.7	826.9	691.0
17.5°	790.3	793.8	818.6	863.1	924.1	986.6	1020.4	1000.6	991.7	901.3	730.0
20°	766.8	769.4	791.0	838.8	919.0	1009.7	1082.0	1088.0	1078.7	981.0	772.2
22.5°	807.1	811.8	812.5	835.0	905.0	1021.2	1136.0	1174.0	1167.0	1065.7	813.6
25°	917.4	922.7	905.0	891.0	916.9	1026.3	1182.4	1262.2	1256.6	1156.8	855.3
27.5°	1063.1	1068.7	1045.8	1004.1	979.1	1045.6	1223.7	1351.7	1351.5	1253.3	900.3
30°	1206.3	1211.9	1188.5	1146.7	1089.4	1100.3	1259.4	1445.4	1446.8	1352.9	948.1
32.5°	1356.3	1363.3	1339.4	1285.7	1225.8	1195.0	1309.5	1539.6	1547.5	1468.3	1002.0
35°	1527.0	1527.9	1494.1	1437.9	1368.9	1321.6	1390.0	1645.2	1664.1	1611.2	1070.3
37.5°	1694.4	1701.2	1673.4	1584.8	1521.4	1467.8	1509.6	1777.2	1803.9	1785.8	1159.6
40°	1818.4	1832.6	1828.7	1733.1	1673.0	1634.7	1658.1	1934.1	1968.1	1989.0	1272.2
42.5°	1896.3	1907.0	1925.2	1867.7	1813.1	1819.3	1833.4	2116.8	2158.8	2220.8	1401.6
45°	1985.6	1990.7	2005.9	1980.5	1943.6	2007.0	2019.4	2322.7	2366.8	2470.0	1545.2
47.5°	2094.7	2106.8	2111.0	2087.7	2070.9	2173.0	2198.6	2509.9	2571.6	2737.0	1697.2
50°	2233.7	2236.9	2244.1	2229.0	2212.1	2315.7	2359.5	2706.4	2762.6	3004.8	1847.1
52.5°	2369.6	2381.2	2406.4	2396.8	2390.1	2437.1	2502.9	2883.6	2946.3	3228.2	1996.8
55°	2408.7	2418.8	2505.7	2565.1	2620.2	2586.8	2640.0	3042.3	3110.3	3427.7	2140.9
57.5°	2252.3	2272.6	2423.1	2578.0	2806.2	2819.5	2828.4	3205.4	3266.2	3580.7	2290.8
60°	1856.9	1860.9	2108.0	2373.5	2775.5	3022.6	3103.5	3380.4	3431.4	3723.1	2470.3
62.5°	1181.0	1221.4	1492.5	1867.4	2450.0	2993.2	3436.1	3645.2	3663.9	3894.0	2727.7
65°	562.6	588.6	784.0	1153.7	1774.6	2617.1	3665.7	4124.3	4132.7	4232.8	3071.5
67.5°	311.5	324.1	417.1	621.1	1037.5	1850.8	3573.0	4691.7	4699.7	4578.7	3373.1
69°	243.6	254.3	327.5	468.1	703.3	1330.2	3233.3	4858.0	4881.5	4677.8	3383.9
70°	206.8	217.2	282.1	395.3	565.5	1027.9	2878.0	4816.8	4841.7	4668.5	3303.9
72.5°	126.6	132.7	187.9	278.3	379.0	517.1	1774.8	4073.5	4115.7	4282.4	2839.5
75°	85.3	88.6	117.5	192.1	271.2	266.2	922.0	2871.2	2962.6	3331.2	2097.3
77.5°	61.1	64.1	78.8	124.3	190.0	175.8	417.5	1784.4	1803.9	1998.0	1143.8
80°	34.7	37.5	55.7	73.9	128.9	117.3	166.0	852.4	862.1	856.7	381.8
82.5°	18.2	20.5	30.6	48.7	82.7	76.7	69.0	285.3	286.7	238.5	83.7
85°	3.5	4.2	15.2	33.3	42.7	33.3	28.2	66.9	68.3	60.4	20.8
87.5°	0.0	0.3	6.1	7.5	8.4	8.7	9.1	13.0	14.0	18.9	5.6
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°	558.6	558.6	558.6	558.6	558.6	558.6	558.6	558.6	558.6	558.6	558.6
2.5°	561.2	552.8	536.7	518.0	503.6	489.3	478.2	466.5	462.3	460.2	460.0
5°	566.8	549.1	515.0	480.0	451.3	424.3	404.9	386.5	377.9	373.9	372.3
7.5°	576.1	547.7	492.9	439.4	398.1	364.4	337.6	317.6	307.5	303.3	301.6
10°	587.1	545.8	467.0	396.6	343.8	308.9	282.4	262.5	251.5	246.9	244.5
12.5°	599.8	542.5	437.1	353.1	297.4	262.5	230.4	205.9	193.3	187.9	185.4
15°	615.7	539.3	405.9	312.4	256.6	214.0	178.9	162.3	159.7	158.7	159.0
17.5°	631.3	534.1	371.9	272.1	213.8	167.1	149.2	148.3	148.8	148.8	148.8
20°	645.3	522.4	334.8	237.5	173.0	141.0	137.3	135.7	134.5	133.6	132.4
22.5°	656.3	506.9	299.1	203.3	141.3	129.1	123.3	118.2	114.0	111.2	109.8
25°	663.7	486.1	266.5	170.4	127.1	117.5	107.0	98.4	91.9	87.8	86.3
27.5°	669.3	463.7	237.4	142.7	117.3	104.0	90.3	79.9	73.2	69.7	68.3
30°	673.3	438.3	211.6	125.4	106.3	89.8	75.1	65.0	60.2	58.3	57.4
32.5°	677.0	410.1	187.4	117.3	96.0	76.7	63.0	55.2	52.3	49.9	49.2
35°	686.4	384.0	164.3	108.6	85.5	65.5	54.1	48.5	45.5	44.1	43.6
37.5°	708.4	364.6	142.2	99.8	75.1	56.6	47.3	43.3	40.5	39.1	38.7
40°	744.1	354.8	123.5	90.3	64.8	49.9	42.9	39.1	36.1	34.0	33.5
42.5°	796.6	356.2	110.5	80.7	56.6	44.5	38.7	34.3	31.0	29.2	28.7
45°	860.3	366.5	101.4	71.4	49.9	40.3	34.0	29.3	26.4	24.7	24.2
47.5°	929.2	383.1	94.0	63.0	44.5	36.3	29.3	24.5	21.9	20.5	20.3
50°	1002.0	399.1	86.3	54.8	39.9	32.4	24.7	20.3	18.2	17.0	16.6
52.5°	1075.7	417.8	79.3	47.3	35.9	27.8	20.5	16.6	14.9	14.0	13.5
55°	1154.9	431.8	72.5	41.5	32.0	23.6	17.0	13.8	12.4	11.2	11.0
57.5°	1248.2	453.5	65.5	35.9	27.3	19.6	14.0	11.0	9.8	8.7	8.4
60°	1374.0	478.8	58.0	31.7	22.4	16.1	11.5	8.8	7.5	6.5	6.3
62.5°	1540.0	507.0	48.7	27.8	18.2	13.0	9.1	7.0	5.4	4.2	4.2
65°	1750.6	553.0	39.9	23.3	14.9	10.7	7.0	5.1	3.1	1.9	1.9
67.5°	1873.4	560.9	32.1	19.1	12.1	9.1	5.9	3.5	0.9	0.3	0.0
69°	1834.0	515.0	27.3	16.3	10.5	8.7	5.4	2.6	0.5	0.0	0.0
70°	1759.9	470.9	24.0	14.4	9.6	8.2	5.1	1.9	0.5	0.0	0.0
72.5°	1454.2	335.3	18.2	10.7	7.0	7.3	4.7	1.2	0.5	0.0	0.0
75°	1059.4	203.7	13.0	7.5	4.5	5.4	3.3	0.5	0.3	0.0	0.0
77.5°	589.4	96.0	8.2	4.2	2.8	3.3	1.7	0.0	0.0	0.0	0.0
80°	191.4	26.1	3.7	2.3	1.7	1.9	0.7	0.0	0.0	0.0	0.0
82.5°	35.4	7.5	2.1	1.2	0.5	0.5	0.0	0.0	0.0	0.0	0.0
85°	7.7	3.1	1.2	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.6	0.9	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)