

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: P382894

Luminaire Tested: **GLEON-SA2C-735-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382894
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-SA2C-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9590.3 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

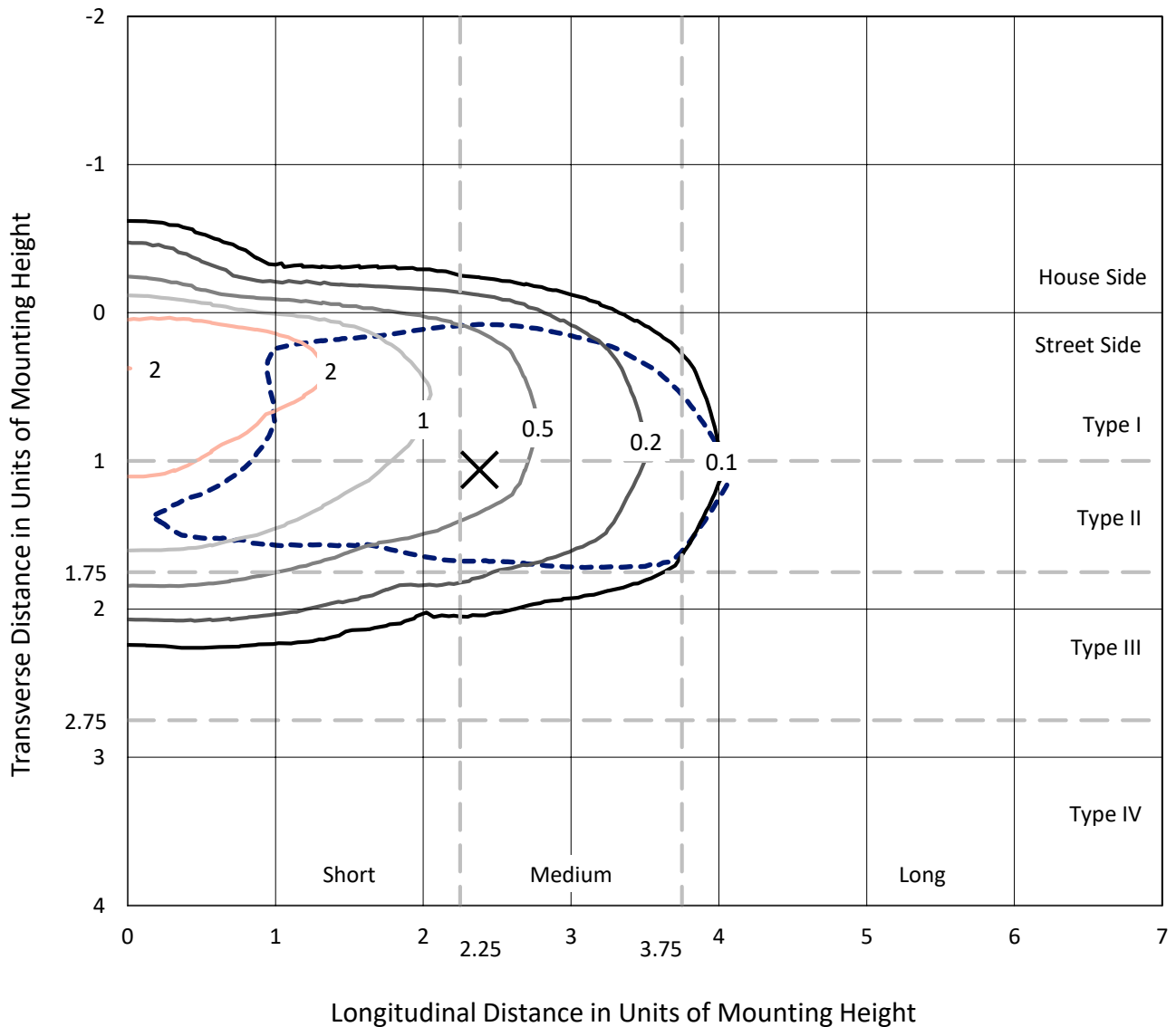
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

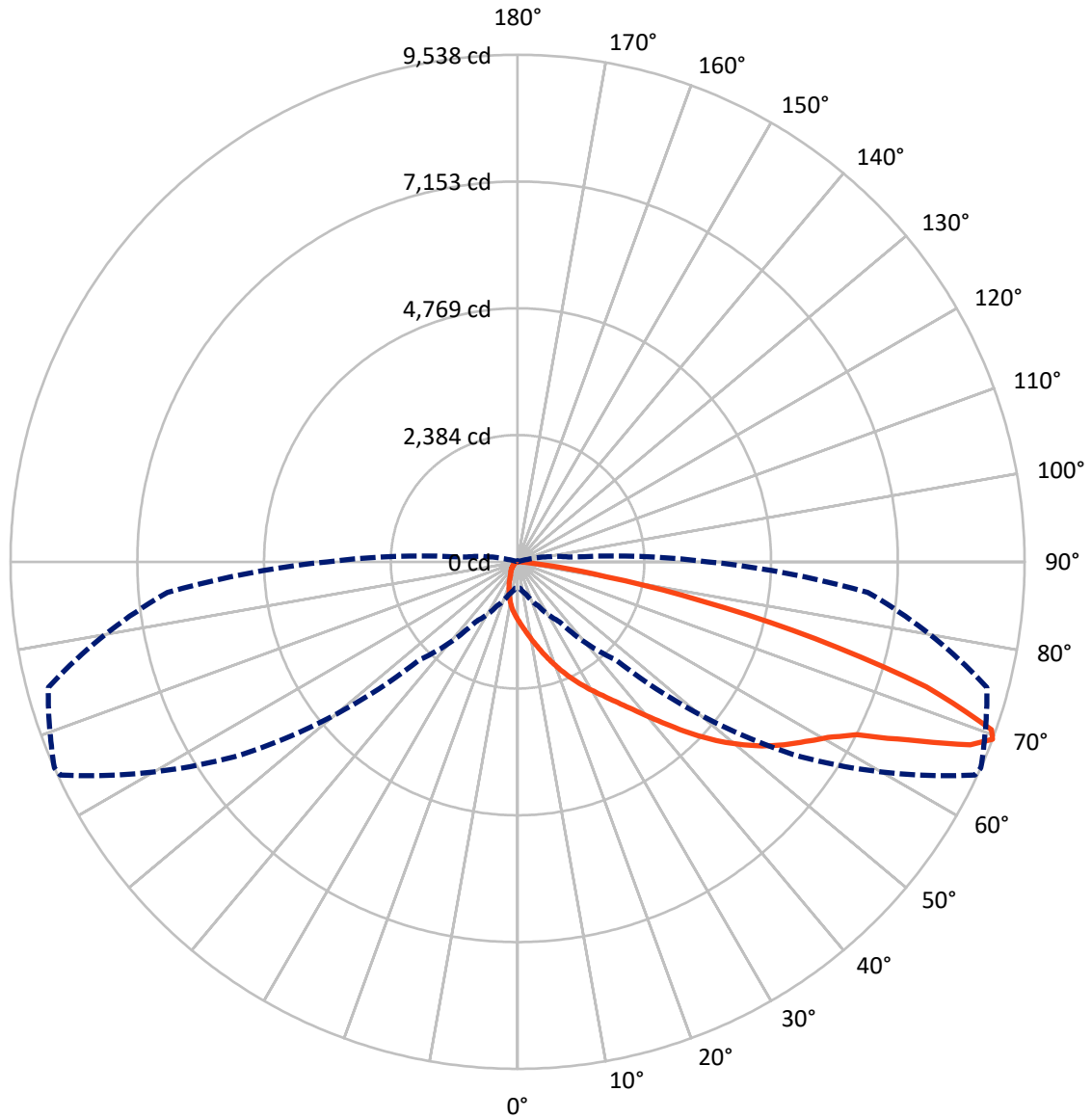
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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	575.3	0.0	575.3
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	9015.0	0.0	9015.0
	% Fixture	94.0	0.0	94.0
Total	Lumens	9590.3	0.0	9590.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.5	1.1
10°-20°	314.0	3.3
20°-30°	546.8	5.7
30°-40°	959.3	10.0
40°-50°	1605.7	16.7
50°-60°	2360.2	24.6
60°-70°	2423.4	25.3
70°-80°	1196.3	12.5
80°-90°	79.1	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°	9590.3	100.0
0°-180°	9590.3	100.0

Coefficient of Utilization

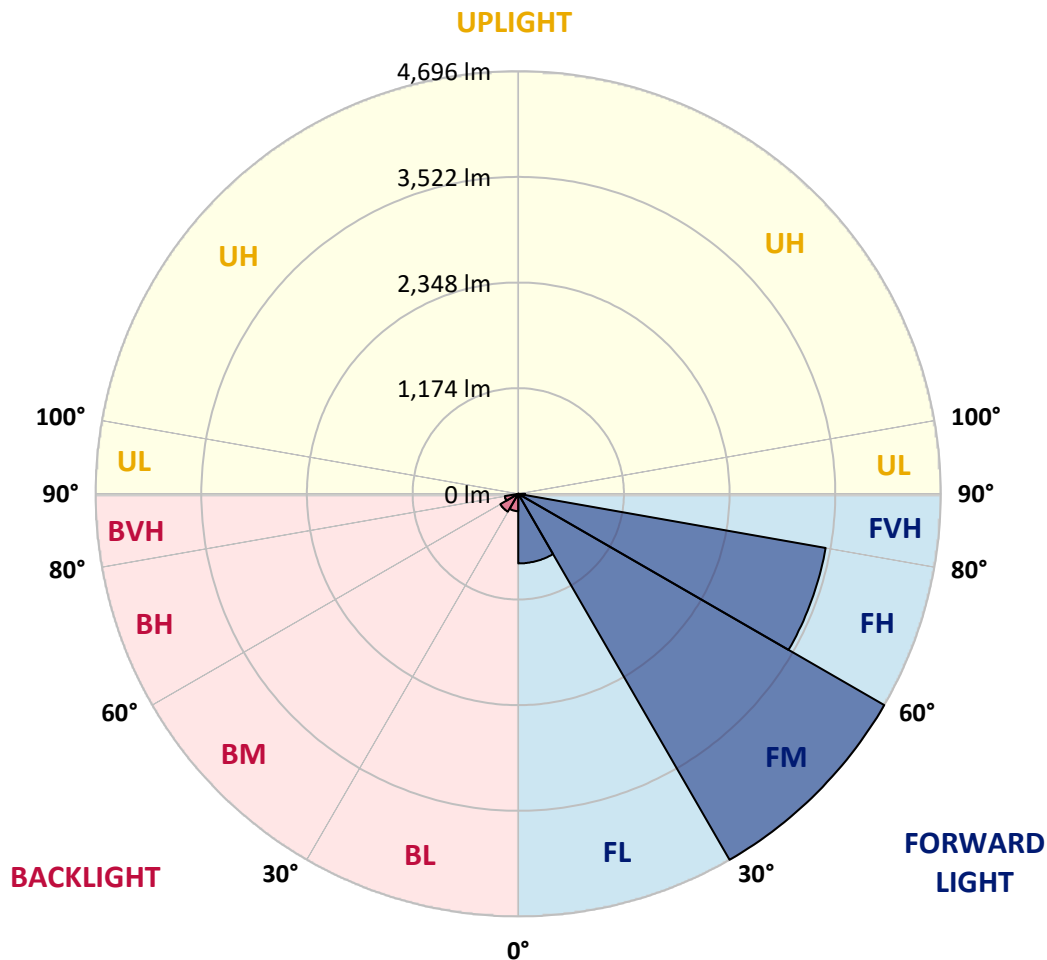


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	773.8	8.1			
FM (30°-60°)	4695.9	49.0			
FH (60°-80°)	3468.1	36.2			G2/5000
FVH (80°-90°)	77.2	0.8			G1/100
BL (0°-30°)	192.4	2.0	B1/500		
BM (30°-60°)	229.4	2.4	B1/1000		
BH (60°-80°)	151.6	1.6	B1/500		G1/500
BVH (80°-90°)	1.9	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1091.4	1091.4	1091.4	1091.4	1091.4	1091.4	1091.4	1091.4	1091.4	1091.4	1091.4
2.5°	1284.5	1279.1	1276.8	1266.8	1249.5	1236.3	1210.7	1181.1	1175.7	1147.0	1111.9
5°	1451.3	1446.7	1443.5	1429.4	1411.7	1378.4	1331.9	1276.8	1266.3	1211.7	1141.5
7.5°	1567.4	1575.6	1575.6	1566.5	1544.2	1519.2	1462.2	1387.1	1373.8	1290.0	1181.1
10°	1635.3	1645.3	1653.0	1660.8	1657.6	1647.6	1593.9	1509.1	1493.2	1382.0	1227.1
12.5°	1641.7	1651.7	1673.5	1705.8	1737.3	1760.1	1726.3	1644.4	1626.2	1488.6	1281.8
15°	1606.2	1616.6	1650.3	1713.2	1789.2	1855.7	1866.7	1794.3	1775.6	1615.7	1350.1
17.5°	1544.2	1551.0	1599.3	1686.3	1805.6	1927.7	1993.8	1955.0	1937.7	1761.0	1426.2
20°	1498.2	1503.1	1545.5	1639.0	1795.7	1972.8	2114.1	2125.9	2107.6	1916.8	1508.6
22.5°	1577.0	1586.1	1587.5	1631.6	1768.3	1995.1	2219.7	2293.9	2280.3	2082.1	1589.8
25°	1792.4	1802.9	1768.3	1741.0	1791.6	2005.2	2310.3	2466.2	2455.2	2260.2	1671.3
27.5°	2077.2	2088.1	2043.4	1961.9	1913.1	2043.0	2391.0	2641.0	2640.6	2448.9	1759.2
30°	2356.8	2367.7	2322.2	2240.7	2128.6	2150.0	2460.7	2824.2	2826.9	2643.4	1852.6
32.5°	2650.2	2663.9	2616.9	2512.1	2395.1	2334.9	2558.6	3008.2	3023.7	2868.8	1957.8
35°	2983.6	2985.4	2919.4	2809.5	2674.8	2582.2	2715.7	3214.6	3251.5	3148.1	2091.2
37.5°	3310.6	3323.9	3269.6	3096.6	2972.7	2867.9	2949.5	3472.3	3524.8	3489.2	2265.7
40°	3553.0	3580.8	3573.0	3386.3	3268.7	3194.1	3239.5	3778.9	3845.4	3886.4	2485.7
42.5°	3705.1	3726.1	3761.6	3649.1	3542.5	3554.8	3582.2	4136.1	4218.0	4339.2	2738.6
45°	3879.6	3889.6	3919.2	3869.6	3797.6	3921.5	3945.7	4538.2	4624.4	4826.2	3019.1
47.5°	4092.8	4116.4	4124.6	4079.1	4046.3	4245.8	4295.9	4904.0	5024.8	5347.7	3316.1
50°	4364.2	4370.6	4384.8	4355.2	4322.4	4524.6	4610.2	5288.0	5397.9	5871.1	3609.0
52.5°	4629.8	4652.6	4701.8	4683.1	4669.9	4761.9	4890.3	5634.2	5756.8	6307.5	3901.4
55°	4706.4	4725.9	4895.8	5012.0	5119.5	5054.4	5158.2	5944.4	6077.0	6697.4	4182.9
57.5°	4400.7	4440.3	4734.6	5037.1	5483.0	5509.0	5526.2	6262.8	6381.8	6996.2	4475.9
60°	3628.2	3635.9	4118.7	4637.5	5422.8	5905.7	6063.7	6605.0	6704.6	7274.5	4826.6
62.5°	2307.6	2386.4	2916.2	3648.7	4786.9	5848.3	6713.8	7122.3	7158.9	7608.4	5329.5
65°	1099.1	1150.2	1531.9	2254.3	3467.3	5113.5	7162.5	8058.4	8074.8	8270.3	6001.4
67.5°	608.6	633.2	814.9	1213.5	2027.0	3616.3	6981.2	9167.2	9182.6	8946.2	6590.8
69°	476.0	497.0	640.0	914.7	1374.3	2599.1	6317.5	9491.9	9537.9	9139.9	6611.8
70°	404.0	424.5	551.2	772.5	1105.1	2008.3	5623.3	9411.3	9460.1	9121.6	6455.5
72.5°	247.3	259.2	367.1	543.8	740.7	1010.4	3467.8	7959.1	8041.6	8367.3	5548.1
75°	166.7	173.1	229.5	375.3	529.8	520.2	1801.5	5610.1	5788.6	6508.8	4097.8
77.5°	119.3	125.3	154.0	242.8	371.2	343.5	815.8	3486.5	3524.8	3903.7	2234.8
80°	67.9	73.3	108.9	144.4	251.9	229.2	324.4	1665.3	1684.5	1674.0	746.2
82.5°	35.5	40.1	59.7	95.2	161.7	149.9	134.8	557.5	560.2	466.0	163.5
85°	6.8	8.2	29.6	65.1	83.4	65.1	55.1	130.7	133.5	117.9	40.5
87.5°	0.0	0.5	11.8	14.5	16.4	16.9	17.8	25.5	27.3	36.9	10.9
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°	1091.4	1091.4	1091.4	1091.4	1091.4	1091.4	1091.4	1091.4	1091.4	1091.4	1091.4
2.5°	1096.4	1080.0	1048.5	1012.1	983.9	956.1	934.2	911.5	903.3	899.2	898.8
5°	1107.3	1072.8	1006.3	937.9	881.9	829.0	791.3	755.2	738.3	730.6	727.4
7.5°	1125.6	1070.0	962.9	858.6	778.0	712.0	659.5	620.4	600.8	592.7	589.4
10°	1147.0	1066.3	912.4	774.9	671.9	603.5	551.7	512.9	491.5	482.4	477.8
12.5°	1172.1	1060.0	854.0	690.1	581.2	512.9	450.0	402.2	377.6	367.1	362.1
15°	1203.0	1053.6	793.0	610.3	501.5	418.2	349.4	317.0	312.1	310.2	310.7
17.5°	1233.6	1043.6	726.5	531.5	417.7	326.6	291.5	289.7	290.6	290.6	290.6
20°	1260.8	1020.8	654.1	464.2	338.0	275.6	268.3	265.1	262.8	261.0	258.7
22.5°	1282.3	990.2	584.5	397.2	276.0	252.4	241.0	230.9	222.7	217.2	214.5
25°	1296.8	949.7	520.6	332.9	248.3	229.5	209.0	192.3	179.5	171.7	168.5
27.5°	1307.8	906.0	463.7	278.8	229.2	203.2	176.2	156.2	143.0	136.2	133.5
30°	1315.5	856.4	413.6	245.1	207.7	175.4	146.7	127.1	117.6	113.8	112.1
32.5°	1322.8	801.2	366.2	229.2	187.7	149.9	123.0	108.0	102.0	97.4	96.1
35°	1341.1	750.3	321.1	212.3	167.2	128.0	105.6	94.7	88.9	86.1	85.1
37.5°	1384.3	712.4	277.9	195.0	146.7	110.7	92.5	84.8	79.3	76.5	75.6
40°	1454.0	693.3	241.5	176.2	126.6	97.4	83.8	76.5	70.6	66.5	65.6
42.5°	1556.5	696.1	215.9	157.6	110.7	87.0	75.6	67.0	60.6	56.9	56.0
45°	1680.8	716.1	198.1	139.4	97.4	78.8	66.5	57.4	51.5	48.3	47.4
47.5°	1815.7	748.4	183.6	123.0	87.0	71.1	57.4	47.8	42.9	40.1	39.6
50°	1957.8	779.8	168.5	107.0	77.9	63.3	48.3	39.6	35.5	33.3	32.3
52.5°	2101.8	816.3	154.9	92.5	70.1	54.2	40.1	32.3	29.2	27.3	26.5
55°	2256.6	843.6	141.7	81.0	62.4	46.0	33.3	26.9	24.1	21.9	21.4
57.5°	2438.8	886.0	128.0	70.1	53.3	38.3	27.3	21.4	19.1	16.9	16.4
60°	2684.8	935.6	113.5	61.9	43.7	31.4	22.4	17.3	14.5	12.8	12.3
62.5°	3009.1	990.7	95.2	54.2	35.5	25.5	17.8	13.7	10.4	8.2	8.2
65°	3420.5	1080.5	77.9	45.6	29.2	21.0	13.7	10.1	6.0	3.6	3.6
67.5°	3660.5	1096.0	62.9	37.4	23.7	17.8	11.4	6.8	1.9	0.5	0.0
69°	3583.5	1006.3	53.3	31.9	20.5	16.9	10.4	5.0	0.9	0.0	0.0
70°	3438.6	920.1	46.9	28.2	18.6	15.9	10.1	3.6	0.9	0.0	0.0
72.5°	2841.5	655.1	35.5	21.0	13.7	14.2	9.1	2.2	0.9	0.0	0.0
75°	2069.8	398.1	25.5	14.5	8.7	10.4	6.3	0.9	0.5	0.0	0.0
77.5°	1151.5	187.7	15.9	8.2	5.5	6.3	3.2	0.0	0.0	0.0	0.0
80°	374.0	51.0	7.3	4.6	3.2	3.6	1.4	0.0	0.0	0.0	0.0
82.5°	69.2	14.5	4.1	2.2	0.9	0.9	0.0	0.0	0.0	0.0	0.0
85°	15.0	6.0	2.2	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.0	1.9	0.5	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)