

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: P382797

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382797  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)  
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-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6193.9 lumens  
Efficiency: N/A  
Efficacy: 92.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

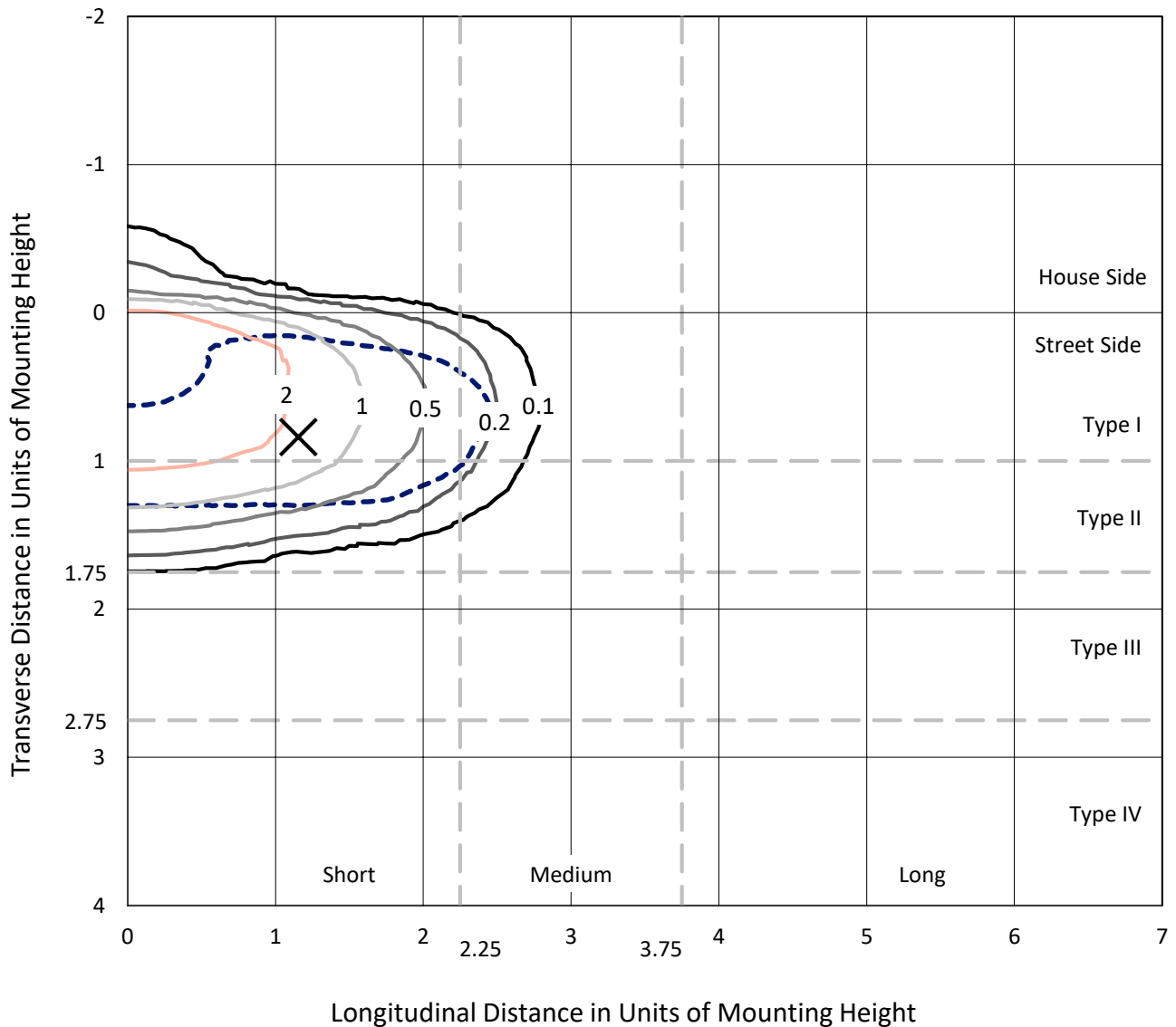
Input Watts (W): 67  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P382797  
 CATALOG NUMBER: GLEON-SA1D-735-U-AFL-HSS

### Iso-Footcandle Lines of Horizontal Illumination

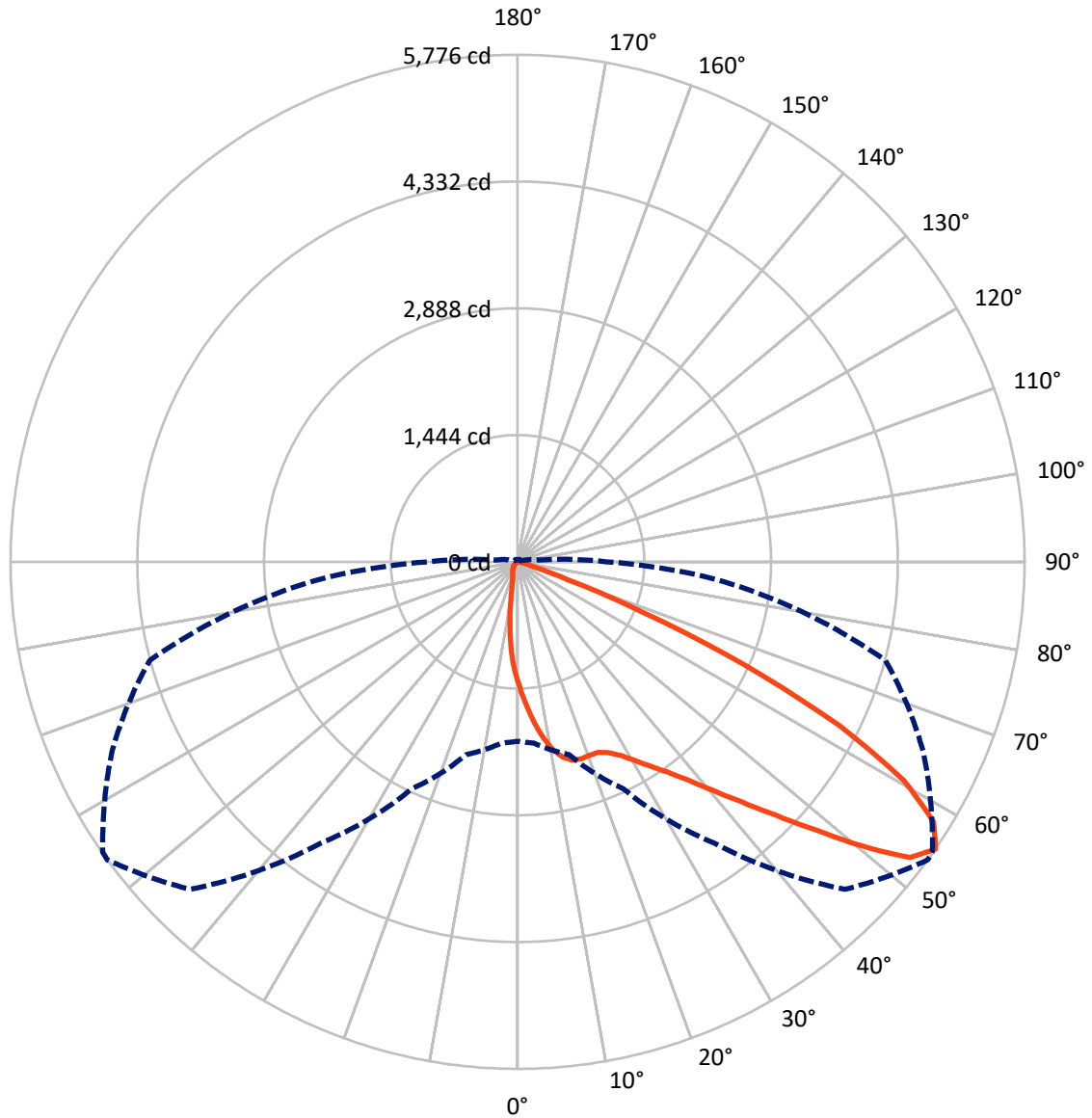
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc  
 Type II - Short - N/A

REPORT NUMBER: P382797  
CATALOG NUMBER: GLEON-SA1D-735-U-AFL-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P382797  
 CATALOG NUMBER: GLEON-SA1D-735-U-AFL-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	309.0	0.0	309.0
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	5884.8	0.0	5884.8
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	6193.9	0.0	6193.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.7	2.1
10°-20°	350.3	5.7
20°-30°	598.1	9.7
30°-40°	959.9	15.5
40°-50°	1534.0	24.8
50°-60°	1643.7	26.5
60°-70°	843.9	13.6
70°-80°	127.8	2.1
80°-90°	8.3	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°	6193.9	100.0
0°-180°	6193.9	100.0

**Coefficient of Utilization**

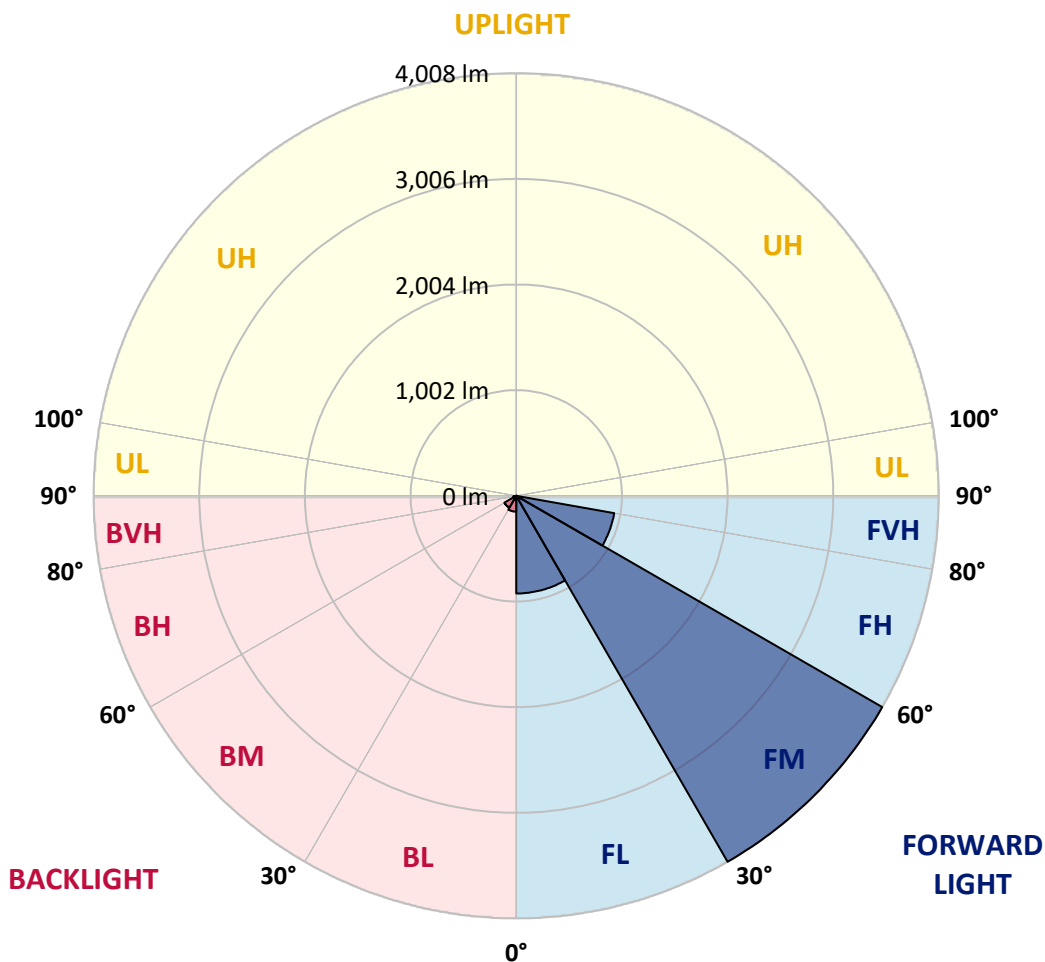


REPORT NUMBER: P382797  
 CATALOG NUMBER: GLEON-SA1D-735-U-AFL-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	925.9	14.9			
FM (30°-60°)	4007.7	64.7			
FH (60°-80°)	943.3	15.2			G1/1800
FVH (80°-90°)	8.0	0.1			G0/10
BL (0°-30°)	150.4	2.4	B1/500		
BM (30°-60°)	129.9	2.1	B0/220		
BH (60°-80°)	28.5	0.5	B0/110		G0/110
BVH (80°-90°)	0.3	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-G1**  
 Type II Short





REPORT NUMBER: P382797

CATALOG NUMBER: GLEON-SA1D-735-U-AFL-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1387.2	1387.2	1387.2	1387.2	1387.2	1387.2	1387.2	1387.2	1387.2	1387.2	1387.2
2.5°	1740.8	1714.9	1715.6	1703.9	1660.9	1627.1	1592.1	1583.8	1529.2	1471.9	1416.9
5°	2041.7	2022.8	2018.2	1995.5	1935.5	1872.1	1804.2	1788.4	1681.7	1564.5	1449.2
7.5°	2196.3	2196.6	2192.9	2184.6	2147.1	2085.5	2002.6	1986.1	1840.8	1665.0	1482.9
10°	2151.4	2161.6	2182.4	2210.0	2238.6	2230.8	2168.5	2153.6	1995.7	1771.5	1520.4
12.5°	2046.5	2047.8	2071.1	2116.4	2198.7	2283.2	2284.3	2279.2	2143.6	1882.8	1561.6
15°	1994.4	1999.5	2008.0	2037.2	2115.3	2250.6	2347.4	2354.7	2279.2	2001.1	1605.4
17.5°	2028.6	2035.8	2028.6	2032.1	2077.3	2199.0	2358.4	2376.8	2397.7	2118.0	1646.9
20°	2121.4	2128.1	2115.3	2101.1	2110.0	2184.0	2350.7	2375.5	2490.6	2221.7	1681.7
22.5°	2246.6	2249.3	2229.8	2206.5	2200.0	2234.9	2357.1	2382.7	2564.9	2315.6	1703.6
25°	2384.4	2386.8	2362.4	2335.7	2320.4	2334.6	2409.7	2429.0	2630.4	2405.3	1716.2
27.5°	2534.5	2536.6	2506.0	2473.2	2455.5	2456.0	2496.7	2517.3	2700.3	2507.4	1726.3
30°	2693.0	2692.0	2663.9	2618.1	2595.7	2595.1	2621.8	2642.7	2801.3	2638.5	1740.2
32.5°	2871.2	2869.1	2829.2	2772.5	2747.0	2750.8	2774.6	2786.6	2926.8	2778.1	1765.1
35°	3105.8	3099.6	3039.5	2969.1	2922.3	2921.0	2941.0	2950.6	3086.8	2947.1	1806.6
37.5°	3410.2	3404.5	3322.9	3220.8	3155.0	3130.4	3154.2	3166.5	3314.9	3164.1	1873.2
40°	3710.3	3704.7	3656.2	3562.6	3461.3	3402.1	3420.8	3434.0	3599.8	3427.3	1957.2
42.5°	3917.3	3922.1	3939.0	3946.8	3851.8	3727.7	3736.3	3749.9	3899.1	3708.7	2053.2
45°	3971.8	3982.3	4077.6	4264.5	4300.1	4203.2	4113.6	4121.2	4203.2	3990.1	2149.3
47.5°	3807.9	3827.2	4011.0	4358.6	4659.9	4728.3	4558.7	4548.8	4495.1	4217.7	2217.5
50°	3435.3	3453.0	3691.0	4205.4	4769.0	5229.6	5092.1	5063.0	4751.1	4353.9	2241.5
52.5°	2896.1	2917.4	3110.8	3722.8	4563.3	5453.2	5597.1	5572.8	4938.9	4364.6	2245.5
55°	2045.2	2071.1	2275.8	2853.2	3911.5	5275.4	5776.1	5768.9	5094.8	4336.2	2254.1
57.5°	1149.3	1168.1	1388.8	1829.1	2864.8	4594.9	5589.1	5637.0	5188.9	4287.0	2266.9
60°	510.4	515.4	629.6	910.5	1677.2	3511.6	5053.8	5134.6	5108.1	4221.2	2288.6
62.5°	283.0	278.7	278.7	378.5	728.9	2173.9	4121.2	4254.7	4763.4	4143.3	2289.7
65°	221.7	217.7	206.2	207.8	277.7	964.8	2853.8	3091.1	4108.6	3915.2	2212.6
67.5°	188.1	184.5	173.1	168.5	172.5	318.3	1568.0	1814.4	3117.5	3322.2	1916.6
70°	158.9	156.5	150.6	144.9	134.8	157.2	600.0	767.4	1921.0	2210.0	1308.3
72.5°	127.9	126.8	128.9	124.1	111.8	104.9	205.1	248.5	862.9	986.2	539.0
75°	110.2	109.6	110.8	105.9	92.0	73.0	104.3	113.9	243.4	241.3	109.2
77.5°	71.7	72.5	91.8	89.6	79.2	48.7	54.0	58.3	73.9	55.3	33.2
80°	45.7	45.2	46.6	74.3	71.2	37.2	27.0	28.3	35.6	27.3	16.0
82.5°	27.9	27.3	30.5	34.7	35.9	26.0	16.6	16.9	22.2	17.7	8.6
85°	2.4	3.2	18.4	17.1	12.3	8.0	8.0	8.6	11.7	10.4	4.8
87.5°	0.0	0.0	3.2	4.8	2.7	3.0	3.0	3.2	4.6	4.6	2.4
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: P382797

CATALOG NUMBER: GLEON-SA1D-735-U-AFL-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1387.2	1387.2	1387.2	1387.2	1387.2	1387.2	1387.2	1387.2	1387.2	1387.2	1387.2
2.5°	1388.3	1360.4	1304.3	1250.2	1204.5	1160.3	1110.0	1060.3	1037.0	1027.7	1018.1
5°	1390.6	1333.4	1217.6	1101.0	980.1	871.2	778.4	683.2	635.5	614.6	605.0
7.5°	1393.9	1306.7	1119.4	923.6	728.9	581.3	452.4	369.4	333.6	327.9	314.0
10°	1394.4	1274.3	1005.5	727.8	488.7	350.4	269.6	226.8	211.1	208.4	203.8
12.5°	1395.5	1236.1	878.9	539.0	325.8	234.3	195.0	180.8	176.5	176.2	176.2
15°	1398.7	1195.9	747.7	388.4	234.0	185.7	171.2	165.5	164.0	164.8	164.5
17.5°	1398.7	1148.6	618.7	289.4	189.1	166.9	158.9	155.1	154.6	155.4	155.7
20°	1388.5	1091.0	500.4	225.2	167.7	154.9	147.7	144.2	142.8	143.4	143.6
22.5°	1364.2	1020.4	404.2	186.4	153.5	143.9	136.2	130.8	128.6	128.9	128.9
25°	1326.2	936.8	316.2	161.3	142.1	132.1	123.1	116.9	115.5	115.3	115.8
27.5°	1277.5	844.2	251.7	142.1	128.4	119.1	109.9	104.9	103.8	104.1	104.3
30°	1229.6	748.1	198.5	125.8	113.2	104.3	97.3	94.9	94.9	95.8	96.0
32.5°	1185.8	655.9	157.1	111.5	99.5	91.5	87.5	87.2	88.5	89.1	89.3
35°	1148.0	570.6	130.0	100.6	88.8	81.9	80.5	81.6	83.2	84.2	84.5
37.5°	1121.3	494.3	113.6	91.5	80.5	74.9	74.6	76.8	78.9	81.3	81.9
40°	1110.0	429.8	102.5	83.5	73.9	69.6	68.7	71.7	75.7	79.2	79.7
42.5°	1100.7	377.2	92.8	75.7	68.5	62.3	62.0	65.8	70.6	74.1	74.9
45°	1092.7	334.9	84.0	67.4	61.5	53.5	54.3	59.2	62.9	66.6	67.4
47.5°	1076.1	300.1	74.3	58.6	50.9	45.7	47.3	51.6	54.6	60.2	61.0
50°	1046.4	271.7	64.5	47.9	41.5	39.6	42.0	44.9	48.7	53.5	54.0
52.5°	1026.4	250.4	55.9	40.1	34.3	34.7	37.2	38.3	40.4	42.3	41.7
55°	1014.8	238.6	48.9	34.7	29.2	30.7	31.3	30.0	28.9	27.0	26.2
57.5°	1013.5	227.9	43.6	30.2	25.7	26.5	24.6	20.0	16.3	14.2	13.6
60°	1011.4	214.8	39.3	25.4	22.7	21.7	17.7	11.0	7.7	7.3	7.3
62.5°	988.1	194.5	36.1	21.4	19.3	16.3	10.2	5.1	4.3	4.6	4.6
65°	914.0	166.1	32.9	17.4	15.3	11.7	5.1	3.0	1.6	1.9	1.9
67.5°	777.0	132.4	29.4	13.4	11.5	7.5	3.0	1.3	0.0	0.0	0.0
70°	520.3	82.2	24.9	9.3	7.5	4.6	2.1	0.3	0.0	0.0	0.0
72.5°	199.5	44.4	20.0	5.6	4.8	3.2	1.3	0.0	0.0	0.0	0.0
75°	44.9	29.2	13.9	4.0	3.4	2.1	0.6	0.0	0.0	0.0	0.0
77.5°	17.1	21.1	8.0	2.7	2.4	1.3	0.0	0.0	0.0	0.0	0.0
80°	8.3	12.6	3.7	1.6	1.3	0.6	0.0	0.0	0.0	0.0	0.0
82.5°	4.3	4.8	1.6	0.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.4	2.4	0.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.3	0.8	0.3	0.3	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)