

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: P322037

Luminaire Tested: **GLEON-SA3B-827-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322037
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-SA3B-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 800mA 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: 9124 lumens
Efficiency: N/A
Efficacy: 73.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 124
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

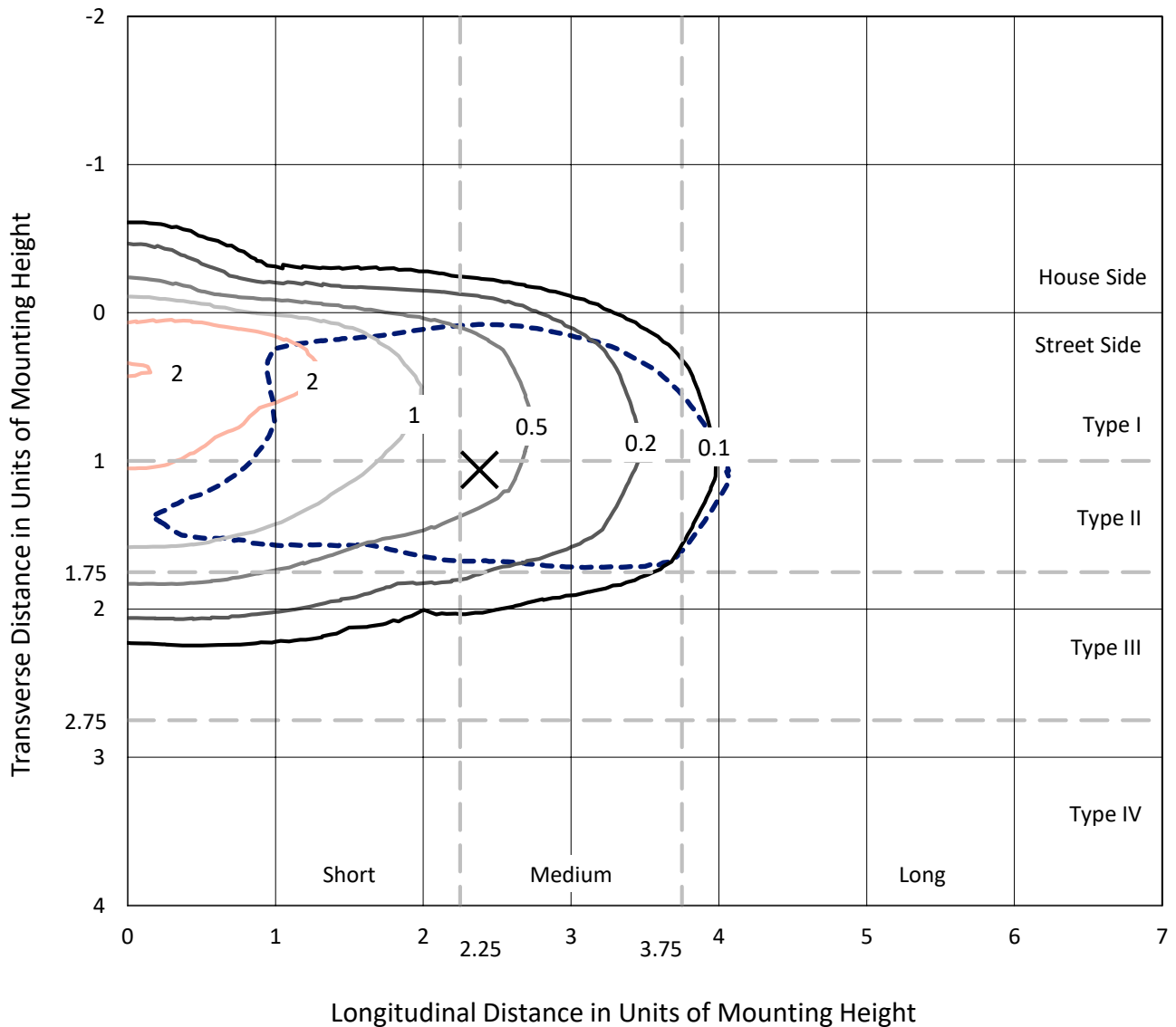




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Iso-Footcandle Lines of Horizontal Illumination

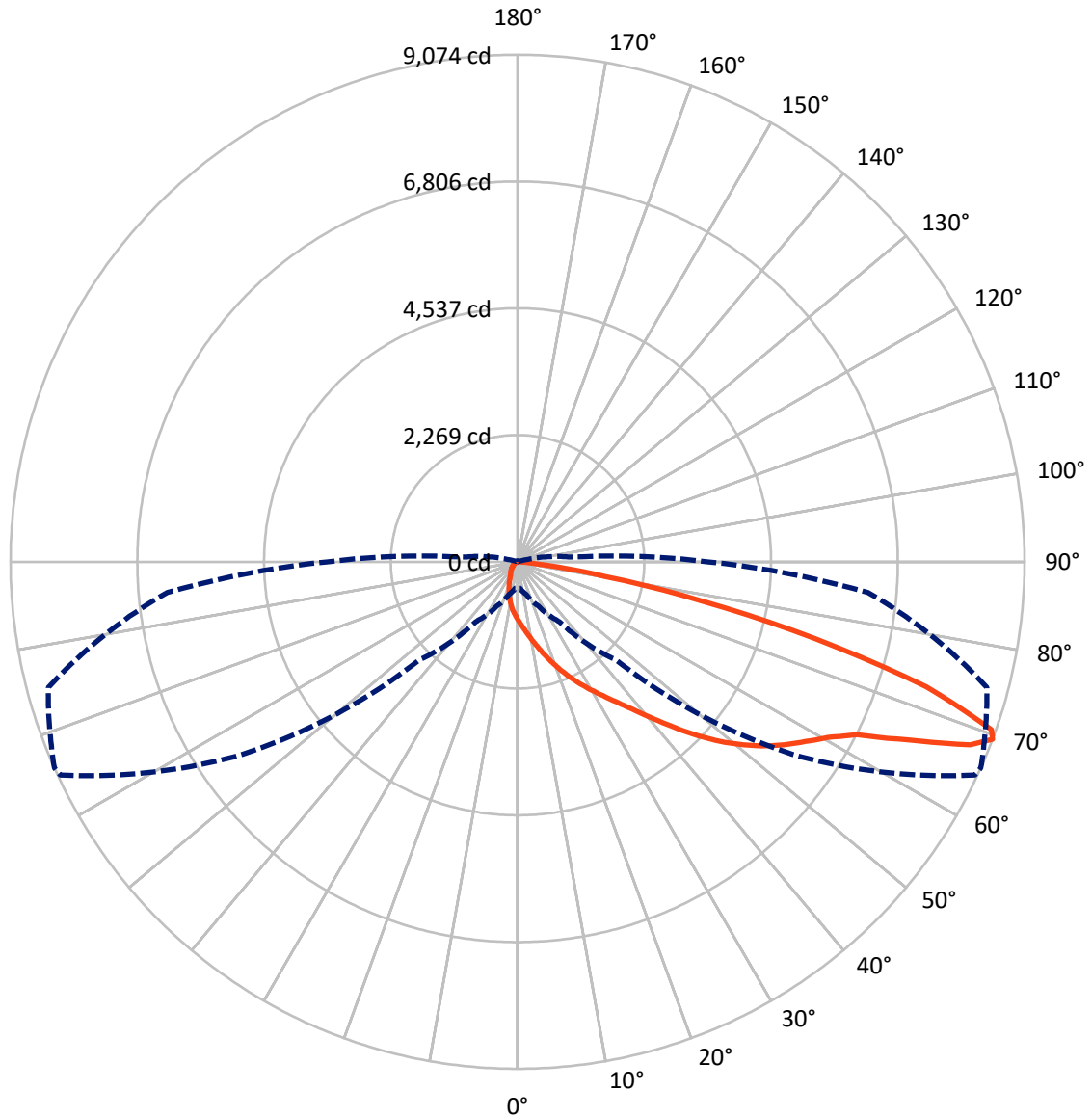
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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	547.3	0.0	547.3
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	8576.7	0.0	8576.7
	% Fixture	94.0	0.0	94.0
Total	Lumens	9124.0	0.0	9124.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.4	1.1
10°-20°	298.7	3.3
20°-30°	520.2	5.7
30°-40°	912.6	10.0
40°-50°	1527.6	16.7
50°-60°	2245.5	24.6
60°-70°	2305.5	25.3
70°-80°	1138.2	12.5
80°-90°	75.3	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°	9124.0	100.0
0°-180°	9124.0	100.0

Coefficient of Utilization

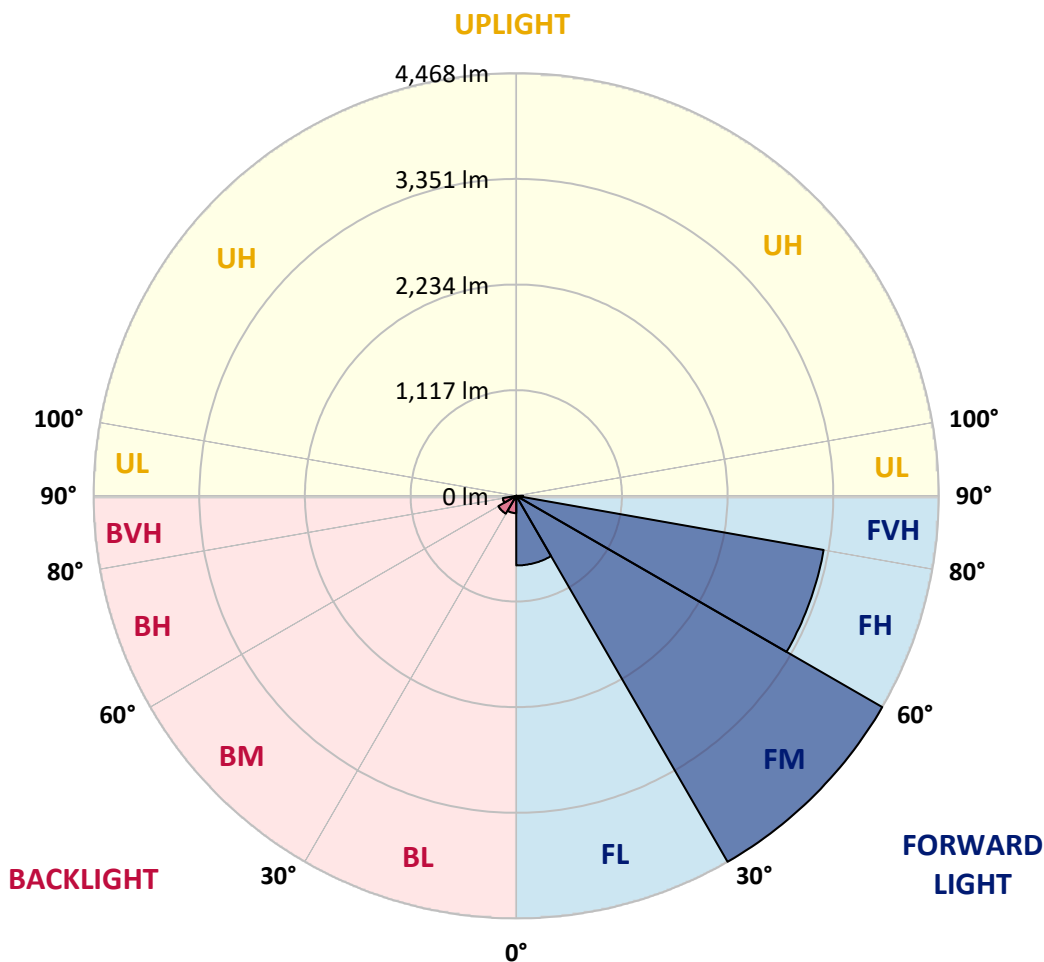


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	736.2	8.1			
FM (30°-60°)	4467.5	49.0			
FH (60°-80°)	3299.5	36.2			G2/5000
FVH (80°-90°)	73.4	0.8			G1/100
BL (0°-30°)	183.0	2.0	B1/500		
BM (30°-60°)	218.2	2.4	B0/220		
BH (60°-80°)	144.2	1.6	B1/500		G1/500
BVH (80°-90°)	1.8	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°	1038.3	1038.3	1038.3	1038.3	1038.3	1038.3	1038.3	1038.3	1038.3	1038.3	1038.3
2.5°	1222.1	1216.9	1214.7	1205.2	1188.7	1176.2	1151.9	1123.7	1118.5	1091.2	1057.8
5°	1380.7	1376.4	1373.3	1359.9	1343.0	1311.4	1267.2	1214.7	1204.8	1152.7	1086.0
7.5°	1491.2	1499.0	1499.0	1490.3	1469.1	1445.3	1391.1	1319.6	1307.0	1227.3	1123.7
10°	1555.8	1565.3	1572.7	1580.0	1577.0	1567.5	1516.3	1435.7	1420.6	1314.8	1167.5
12.5°	1561.8	1571.4	1592.2	1622.9	1652.9	1674.5	1642.5	1564.4	1547.1	1416.2	1219.5
15°	1528.0	1538.0	1570.1	1629.9	1702.3	1765.5	1775.9	1707.0	1689.3	1537.1	1284.5
17.5°	1469.1	1475.6	1521.5	1604.3	1717.9	1834.0	1896.8	1860.0	1843.5	1675.4	1356.9
20°	1425.3	1430.1	1470.4	1559.2	1708.3	1876.9	2011.2	2022.5	2005.2	1823.6	1435.3
22.5°	1500.3	1509.0	1510.3	1552.3	1682.3	1898.1	2111.8	2182.4	2169.4	1980.9	1512.4
25°	1705.3	1715.3	1682.3	1656.3	1704.4	1907.7	2198.0	2346.2	2335.8	2150.4	1590.0
27.5°	1976.1	1986.5	1944.1	1866.5	1820.1	1943.6	2274.7	2512.6	2512.2	2329.8	1673.7
30°	2242.2	2252.6	2209.3	2131.7	2025.1	2045.5	2341.0	2686.9	2689.5	2514.8	1762.5
32.5°	2521.3	2534.3	2489.7	2390.0	2278.6	2221.4	2434.2	2861.9	2876.7	2729.3	1862.6
35°	2838.5	2840.3	2777.4	2673.0	2544.7	2456.7	2583.7	3058.3	3093.4	2995.0	1989.6
37.5°	3149.7	3162.3	3110.7	2946.0	2828.1	2728.5	2806.0	3303.5	3353.4	3319.6	2155.6
40°	3380.2	3406.7	3399.3	3221.6	3109.8	3038.7	3082.1	3595.2	3658.5	3697.5	2364.9
42.5°	3525.0	3544.9	3578.7	3471.7	3370.3	3382.0	3408.0	3934.9	4013.0	4128.2	2605.4
45°	3691.0	3700.5	3728.7	3681.4	3613.0	3730.8	3753.8	4317.6	4399.5	4591.5	2872.3
47.5°	3893.8	3916.3	3924.1	3880.8	3849.6	4039.4	4087.1	4665.6	4780.4	5087.7	3154.9
50°	4152.1	4158.1	4171.6	4143.4	4112.2	4304.6	4386.1	5030.9	5135.4	5585.6	3433.5
52.5°	4404.7	4426.4	4473.2	4455.4	4442.8	4530.4	4652.6	5360.3	5476.9	6000.8	3711.8
55°	4477.5	4496.2	4657.8	4768.3	4870.6	4808.6	4907.4	5655.4	5781.5	6371.8	3979.6
57.5°	4186.7	4224.4	4504.4	4792.1	5216.4	5241.1	5257.6	5958.3	6071.4	6656.0	4258.2
60°	3451.7	3459.1	3918.5	4412.1	5159.2	5618.6	5768.9	6283.8	6378.7	6920.8	4591.9
62.5°	2195.4	2270.4	2774.4	3471.2	4554.2	5564.0	6387.4	6776.1	6810.8	7238.5	5070.4
65°	1045.7	1094.2	1457.4	2144.7	3298.8	4864.9	6814.2	7666.6	7682.2	7868.2	5709.6
67.5°	579.0	602.4	775.3	1154.5	1928.5	3440.5	6641.7	8721.5	8736.2	8511.3	6270.3
69°	452.9	472.8	608.9	870.2	1307.5	2472.8	6010.3	9030.4	9074.2	8695.5	6290.3
70°	384.4	403.9	524.4	735.0	1051.3	1910.7	5349.9	8953.7	9000.1	8678.1	6141.6
72.5°	235.3	246.6	349.3	517.4	704.7	961.2	3299.2	7572.2	7650.6	7960.5	5278.4
75°	158.6	164.7	218.4	357.1	504.0	494.9	1714.0	5337.3	5507.2	6192.3	3898.5
77.5°	113.5	119.2	146.5	231.0	353.2	326.8	776.2	3317.0	3353.4	3713.9	2126.1
80°	64.6	69.8	103.6	137.4	239.7	218.0	308.6	1584.4	1602.6	1592.6	709.9
82.5°	33.8	38.1	56.8	90.6	153.8	142.6	128.3	530.4	533.0	443.3	155.6
85°	6.5	7.8	28.2	62.0	79.3	62.0	52.4	124.4	127.0	112.2	38.6
87.5°	0.0	0.4	11.3	13.9	15.6	16.0	16.9	24.3	26.0	35.1	10.4
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°	1038.3	1038.3	1038.3	1038.3	1038.3	1038.3	1038.3	1038.3	1038.3	1038.3	1038.3
2.5°	1043.1	1027.5	997.6	962.9	936.1	909.6	888.8	867.2	859.4	855.5	855.0
5°	1053.5	1020.6	957.3	892.3	839.0	788.7	752.8	718.5	702.5	695.1	692.1
7.5°	1070.8	1018.0	916.1	816.9	740.2	677.3	627.5	590.2	571.6	563.8	560.8
10°	1091.2	1014.5	868.0	737.2	639.2	574.2	524.8	488.0	467.6	458.9	454.6
12.5°	1115.0	1008.4	812.6	656.5	553.0	488.0	428.2	382.7	359.3	349.3	344.5
15°	1144.5	1002.4	754.5	580.7	477.1	397.8	332.4	301.6	296.9	295.1	295.6
17.5°	1173.6	992.8	691.2	505.7	397.4	310.7	277.4	275.6	276.5	276.5	276.5
20°	1199.6	971.2	622.3	441.6	321.6	262.2	255.3	252.2	250.1	248.3	246.2
22.5°	1219.9	942.1	556.0	377.9	262.6	240.1	229.2	219.7	211.9	206.7	204.1
25°	1233.8	903.6	495.3	316.8	236.2	218.4	198.9	182.9	170.7	163.4	160.3
27.5°	1244.2	862.0	441.2	265.2	218.0	193.3	167.7	148.6	136.1	129.6	127.0
30°	1251.6	814.7	393.5	233.1	197.6	166.8	139.5	120.9	111.8	108.3	106.6
32.5°	1258.5	762.3	348.4	218.0	178.5	142.6	117.0	102.7	97.1	92.7	91.4
35°	1275.8	713.8	305.5	201.9	159.0	121.8	100.5	90.1	84.5	81.9	81.0
37.5°	1317.0	677.8	264.4	185.5	139.5	105.3	88.0	80.6	75.4	72.8	71.9
40°	1383.3	659.6	229.7	167.7	120.5	92.7	79.7	72.8	67.2	63.3	62.4
42.5°	1480.8	662.2	205.4	149.9	105.3	82.8	71.9	63.7	57.6	54.2	53.3
45°	1599.1	681.2	188.5	132.6	92.7	75.0	63.3	54.6	49.0	45.9	45.1
47.5°	1727.4	712.0	174.6	117.0	82.8	67.6	54.6	45.5	40.7	38.1	37.7
50°	1862.6	741.9	160.3	101.8	74.1	60.2	45.9	37.7	33.8	31.6	30.8
52.5°	1999.5	776.6	147.3	88.0	66.7	51.6	38.1	30.8	27.7	26.0	25.1
55°	2146.9	802.6	134.8	77.1	59.4	43.8	31.6	25.6	23.0	20.8	20.4
57.5°	2320.2	842.9	121.8	66.7	50.7	36.4	26.0	20.4	18.2	16.0	15.6
60°	2554.2	890.1	107.9	58.9	41.6	29.9	21.2	16.5	13.9	12.1	11.7
62.5°	2862.8	942.6	90.6	51.6	33.8	24.3	16.9	13.0	10.0	7.8	7.8
65°	3254.1	1027.9	74.1	43.3	27.7	19.9	13.0	9.5	5.6	3.5	3.5
67.5°	3482.5	1042.7	59.8	35.5	22.5	16.9	10.8	6.5	1.7	0.4	0.0
69°	3409.3	957.3	50.7	30.3	19.5	16.0	10.0	4.8	0.9	0.0	0.0
70°	3271.5	875.4	44.6	26.9	17.8	15.2	9.5	3.5	0.9	0.0	0.0
72.5°	2703.3	623.2	33.8	19.9	13.0	13.4	8.7	2.2	0.9	0.0	0.0
75°	1969.2	378.8	24.3	13.9	8.2	10.0	6.1	0.9	0.4	0.0	0.0
77.5°	1095.5	178.5	15.2	7.8	5.2	6.1	3.0	0.0	0.0	0.0	0.0
80°	355.8	48.5	6.9	4.3	3.0	3.5	1.3	0.0	0.0	0.0	0.0
82.5°	65.9	13.9	3.9	2.2	0.9	0.9	0.0	0.0	0.0	0.0	0.0
85°	14.3	5.6	2.2	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.8	1.7	0.4	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)