

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: P323947

Luminaire Tested: **GLEON-SA3A-827-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323947
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3A-827-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8489 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

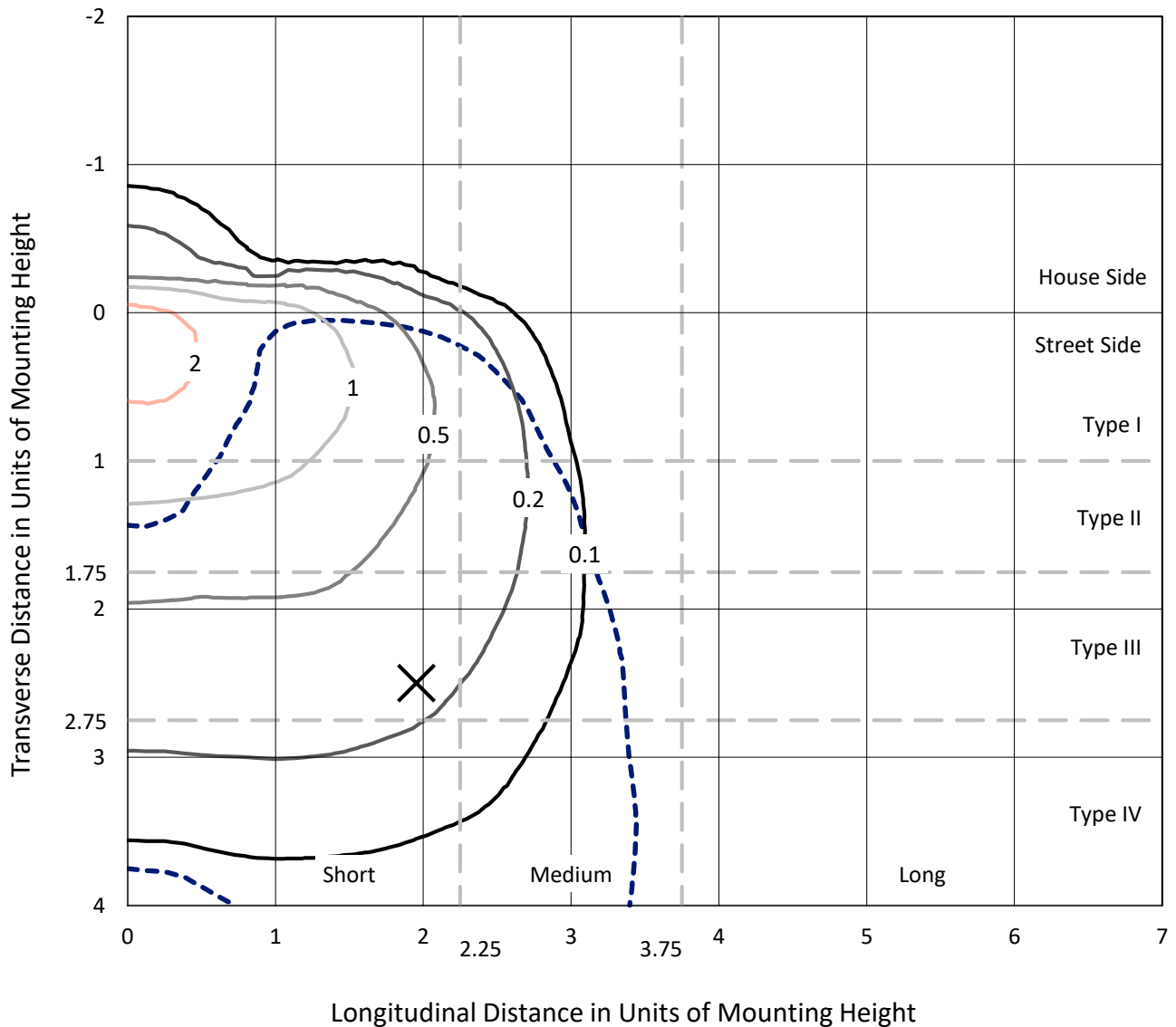
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

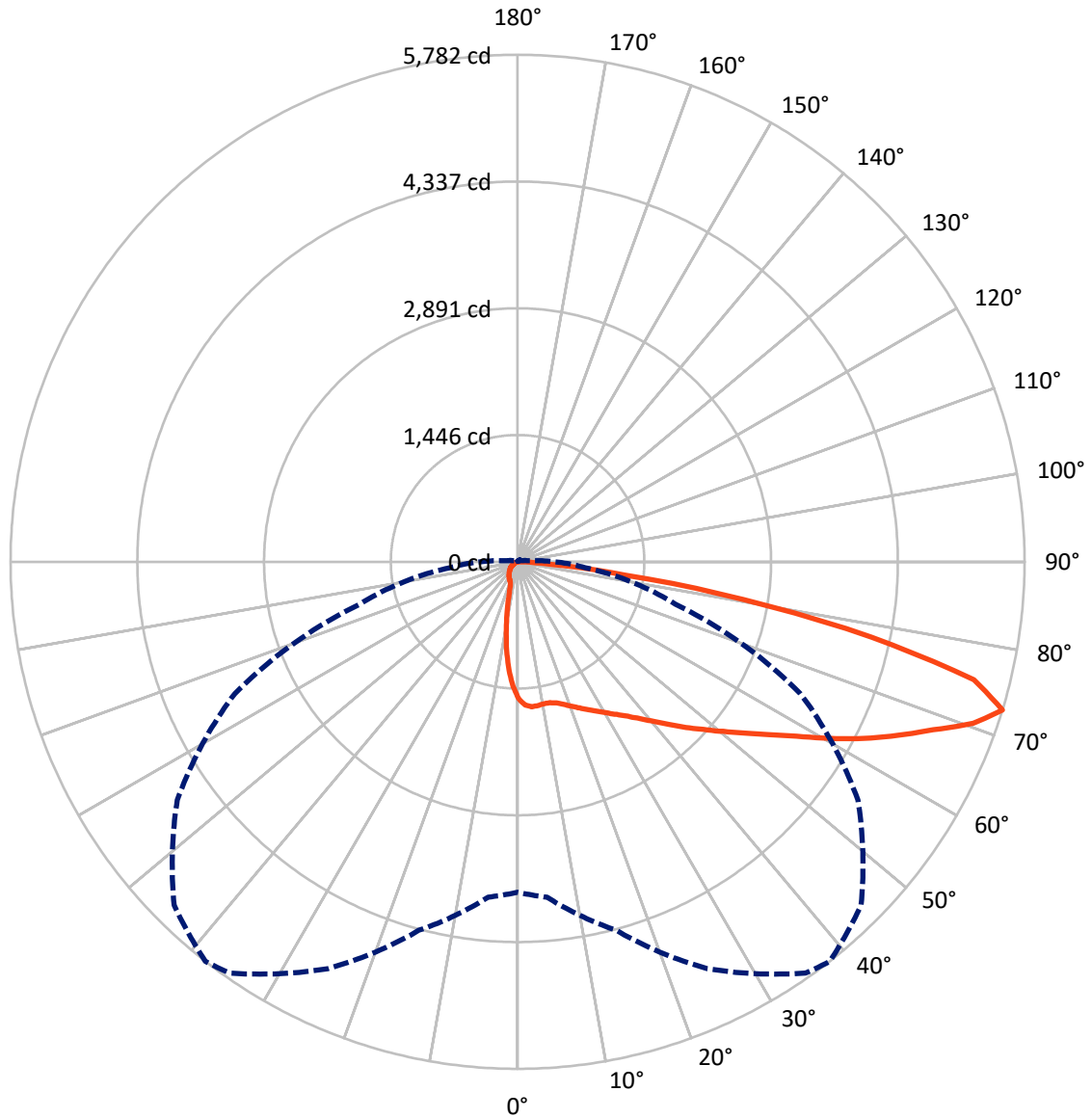
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	714.4	0.0	714.4
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	7774.6	0.0	7774.6
	% Fixture	91.6	0.0	91.6
Total	Lumens	8489.0	0.0	8489.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.0	1.6
10°-20°	325.3	3.8
20°-30°	517.4	6.1
30°-40°	777.8	9.2
40°-50°	1186.6	14.0
50°-60°	1677.1	19.8
60°-70°	2103.7	24.8
70°-80°	1573.0	18.5
80°-90°	195.0	2.3
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°	8489.0	100.0
0°-180°	8489.0	100.0

Coefficient of Utilization



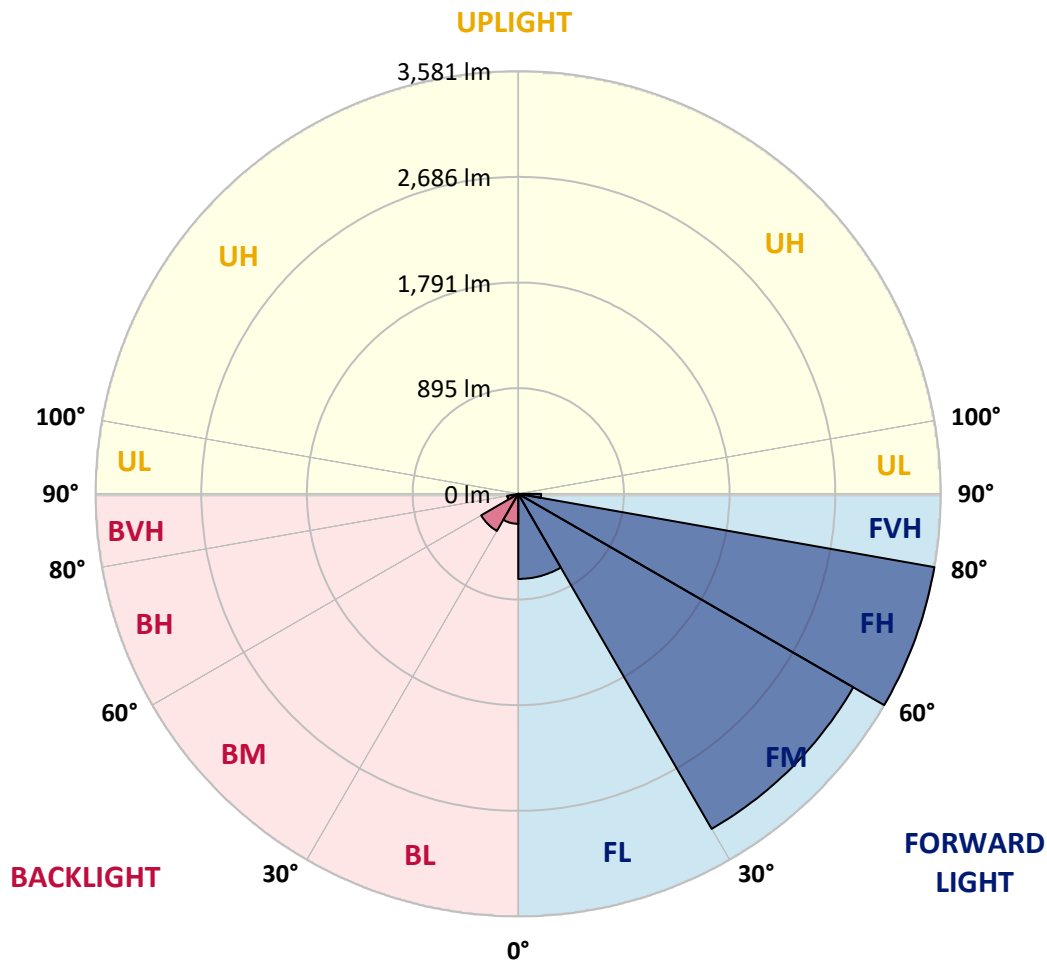
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	721.4	8.5			
FM (30°-60°)	3278.8	38.6			
FH (60°-80°)	3581.2	42.2			G2/5000
FVH (80°-90°)	193.2	2.3			G2/225
BL (0°-30°)	254.4	3.0	B1/500		
BM (30°-60°)	362.8	4.3	B1/1000		
BH (60°-80°)	95.4	1.1	B0/110		G0/110
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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1561.1	1561.1	1561.1	1561.1	1561.1	1561.1	1561.1	1561.1	1561.1	1561.1	1561.1
2.5°	1657.0	1657.3	1653.5	1647.1	1639.0	1634.8	1627.7	1616.4	1604.5	1583.0	1559.7
5°	1690.8	1690.8	1685.9	1677.4	1664.4	1660.5	1647.1	1629.1	1604.5	1569.6	1530.4
7.5°	1687.3	1688.0	1681.3	1672.5	1659.5	1655.9	1639.7	1619.6	1589.0	1546.6	1496.6
10°	1669.0	1670.7	1665.5	1661.2	1649.2	1645.4	1630.2	1610.1	1579.4	1534.3	1476.8
12.5°	1650.3	1652.1	1653.8	1657.7	1650.3	1648.9	1636.9	1620.0	1590.7	1543.8	1479.0
15°	1638.3	1641.8	1654.5	1669.7	1671.4	1670.0	1662.3	1646.4	1616.8	1568.2	1494.1
17.5°	1638.3	1643.9	1670.4	1699.3	1709.5	1710.6	1703.9	1681.7	1646.4	1594.2	1508.2
20°	1652.1	1659.8	1701.1	1742.0	1758.9	1758.9	1745.8	1714.8	1673.6	1617.9	1517.7
22.5°	1687.3	1697.5	1749.4	1796.6	1814.6	1810.7	1793.1	1748.0	1701.8	1644.7	1529.7
25°	1756.8	1764.5	1818.5	1866.1	1877.0	1868.2	1846.0	1788.1	1737.7	1681.0	1551.6
27.5°	1846.3	1847.4	1903.1	1943.3	1936.6	1930.6	1902.7	1838.6	1789.6	1732.8	1589.3
30°	1944.7	1944.7	1993.7	2024.4	2003.9	1999.0	1971.1	1899.5	1855.8	1803.3	1642.9
32.5°	2039.9	2044.1	2083.9	2103.3	2080.4	2075.5	2048.3	1976.8	1944.0	1910.8	1726.4
35°	2131.9	2135.1	2172.8	2183.4	2161.5	2162.9	2143.5	2082.9	2070.5	2066.3	1852.3
37.5°	2221.1	2221.8	2260.2	2266.9	2256.0	2268.0	2269.7	2216.1	2239.1	2273.3	2029.6
40°	2302.5	2303.2	2341.3	2358.6	2377.3	2392.8	2406.5	2378.0	2453.8	2533.1	2240.8
42.5°	2367.7	2375.1	2423.4	2456.2	2505.6	2535.2	2572.6	2571.2	2709.4	2828.5	2496.1
45°	2425.2	2437.9	2505.2	2562.7	2647.3	2694.6	2753.1	2798.9	2997.0	3157.5	2754.5
47.5°	2501.0	2513.0	2589.8	2684.0	2796.8	2858.8	2955.8	3054.9	3313.3	3480.4	3006.9
50°	2607.8	2602.5	2678.3	2813.4	2958.3	3039.7	3177.9	3326.3	3627.1	3761.7	3155.3
52.5°	2721.7	2719.6	2775.6	2954.0	3148.6	3243.8	3426.5	3607.0	3927.1	3955.6	3223.4
55°	2862.7	2847.6	2894.8	3114.4	3374.6	3476.9	3691.9	3884.8	4166.1	4064.9	3257.6
57.5°	3010.4	2985.4	3030.5	3293.2	3629.5	3750.4	3986.0	4155.5	4325.1	4139.7	3257.2
60°	3163.1	3133.5	3187.1	3516.7	3946.1	4086.1	4304.7	4338.5	4473.5	4177.4	3233.3
62.5°	3290.7	3273.1	3352.8	3755.7	4299.7	4437.2	4545.4	4504.9	4598.7	4206.6	3177.2
65°	3425.7	3426.8	3555.5	4034.6	4675.5	4768.3	4777.4	4720.7	4703.4	4200.7	2987.5
67.5°	3608.4	3625.3	3840.0	4413.2	5041.1	5112.7	5112.0	4954.4	4779.9	3962.3	2566.9
70°	3801.6	3841.4	4167.9	4846.5	5440.2	5512.9	5475.5	5103.2	4500.7	3204.0	1816.7
72.5°	3769.1	3838.2	4350.1	5119.8	5726.9	5782.2	5539.3	4737.6	3557.2	1862.2	773.5
75°	2907.8	2987.9	3988.8	4849.0	5426.1	5376.4	4759.4	3686.6	1944.0	519.7	174.2
77.5°	1536.1	1578.7	2635.0	3694.0	4231.0	4127.0	3352.8	2045.2	592.6	128.7	78.3
80°	804.5	814.4	1148.3	2095.9	2611.4	2612.1	1987.0	898.3	244.3	65.9	52.5
82.5°	430.8	439.3	606.7	968.5	1368.3	1240.3	760.8	494.3	142.1	37.4	50.4
85°	103.7	105.4	344.1	442.5	538.0	384.3	226.0	415.0	38.4	21.9	40.9
87.5°	39.8	40.5	127.6	191.4	137.1	88.8	105.8	154.8	4.9	8.5	6.3
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°	1561.1	1561.1	1561.1	1561.1	1561.1	1561.1	1561.1	1561.1	1561.1	1561.1	1561.1
2.5°	1545.6	1536.4	1513.9	1485.3	1459.9	1441.6	1414.1	1396.1	1384.1	1383.8	1379.2
5°	1506.5	1487.8	1439.1	1381.3	1328.8	1281.5	1225.8	1181.8	1149.0	1143.7	1132.4
7.5°	1464.5	1433.8	1359.1	1268.8	1180.7	1091.1	987.1	922.6	867.3	840.8	838.0
10°	1438.8	1395.8	1289.6	1159.2	1021.0	875.4	739.3	645.2	577.1	557.7	543.3
12.5°	1433.5	1376.7	1236.0	1056.2	858.8	666.3	515.8	415.7	361.4	344.1	339.5
15°	1438.8	1367.9	1190.9	954.4	694.5	472.8	346.2	288.0	267.6	262.7	262.3
17.5°	1441.9	1357.3	1139.8	841.2	535.2	337.7	265.1	248.2	245.0	244.7	245.4
20°	1441.6	1341.1	1078.8	715.0	398.0	265.5	239.7	236.2	235.5	235.9	235.5
22.5°	1439.1	1322.1	1011.8	584.9	300.7	237.3	228.8	226.7	226.3	226.3	226.3
25°	1443.7	1306.9	938.1	460.4	247.8	224.2	218.9	217.2	216.8	216.8	216.1
27.5°	1460.3	1298.4	857.4	354.3	223.9	212.6	208.4	208.0	206.9	206.6	207.3
30°	1487.1	1298.4	768.9	275.7	209.4	200.6	197.4	196.7	196.4	196.0	196.4
32.5°	1534.3	1308.3	672.3	229.2	195.7	187.2	185.1	186.1	185.1	185.1	185.1
35°	1619.6	1337.9	571.1	199.9	181.2	174.2	172.0	173.5	172.8	172.8	172.4
37.5°	1744.1	1392.9	469.2	182.3	168.5	161.1	158.3	160.4	159.7	159.7	159.4
40°	1895.7	1473.0	372.3	168.9	156.2	148.4	146.0	147.0	145.3	145.3	146.0
42.5°	2082.9	1574.5	287.7	155.8	143.8	136.4	135.0	134.0	130.8	129.0	129.4
45°	2290.9	1680.3	224.2	143.1	132.2	126.2	124.1	121.3	116.0	112.5	112.8
47.5°	2476.7	1761.7	182.3	130.8	121.6	117.0	113.9	108.6	100.8	96.6	97.0
50°	2574.3	1774.0	155.1	118.5	111.8	107.2	102.6	94.5	85.3	80.7	80.4
52.5°	2599.4	1716.2	135.0	107.2	101.9	96.6	90.6	79.7	69.5	64.5	63.8
55°	2608.5	1628.1	117.0	96.6	91.3	85.3	77.6	65.2	55.7	50.8	50.4
57.5°	2578.2	1496.6	102.9	87.1	80.7	73.3	63.8	52.2	43.0	39.1	39.1
60°	2510.9	1318.5	92.0	76.9	69.8	61.3	51.5	40.5	32.1	28.9	28.9
62.5°	2376.6	1088.0	81.8	66.3	59.6	50.8	41.6	30.7	22.6	20.8	21.2
65°	2123.1	825.3	71.6	56.8	50.8	42.0	32.4	21.9	15.2	15.2	15.9
67.5°	1731.4	573.2	61.0	48.3	43.7	34.2	24.7	15.2	10.6	12.0	13.4
70°	1146.1	321.5	52.2	39.8	37.4	27.1	18.3	10.2	8.5	11.3	13.7
72.5°	432.6	125.2	43.7	32.1	32.4	20.8	13.0	7.8	7.8	12.3	16.2
75°	120.6	61.3	31.4	23.6	25.4	15.2	9.5	6.7	7.4	14.1	19.0
77.5°	70.9	45.1	20.4	13.7	17.3	10.6	6.3	5.3	6.3	12.0	18.3
80°	57.1	24.0	12.0	7.1	9.5	6.0	4.2	3.2	1.8	4.6	9.5
82.5°	57.1	14.5	5.6	4.9	4.9	3.2	2.1	1.4	0.4	0.0	2.5
85°	38.4	6.0	3.5	3.2	2.5	1.1	0.7	0.4	0.0	0.0	0.0
87.5°	6.3	2.5	1.4	0.7	0.4	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)