

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: P527061

Luminaire Tested: **GALN-SA2A-740-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527061  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2A-740-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

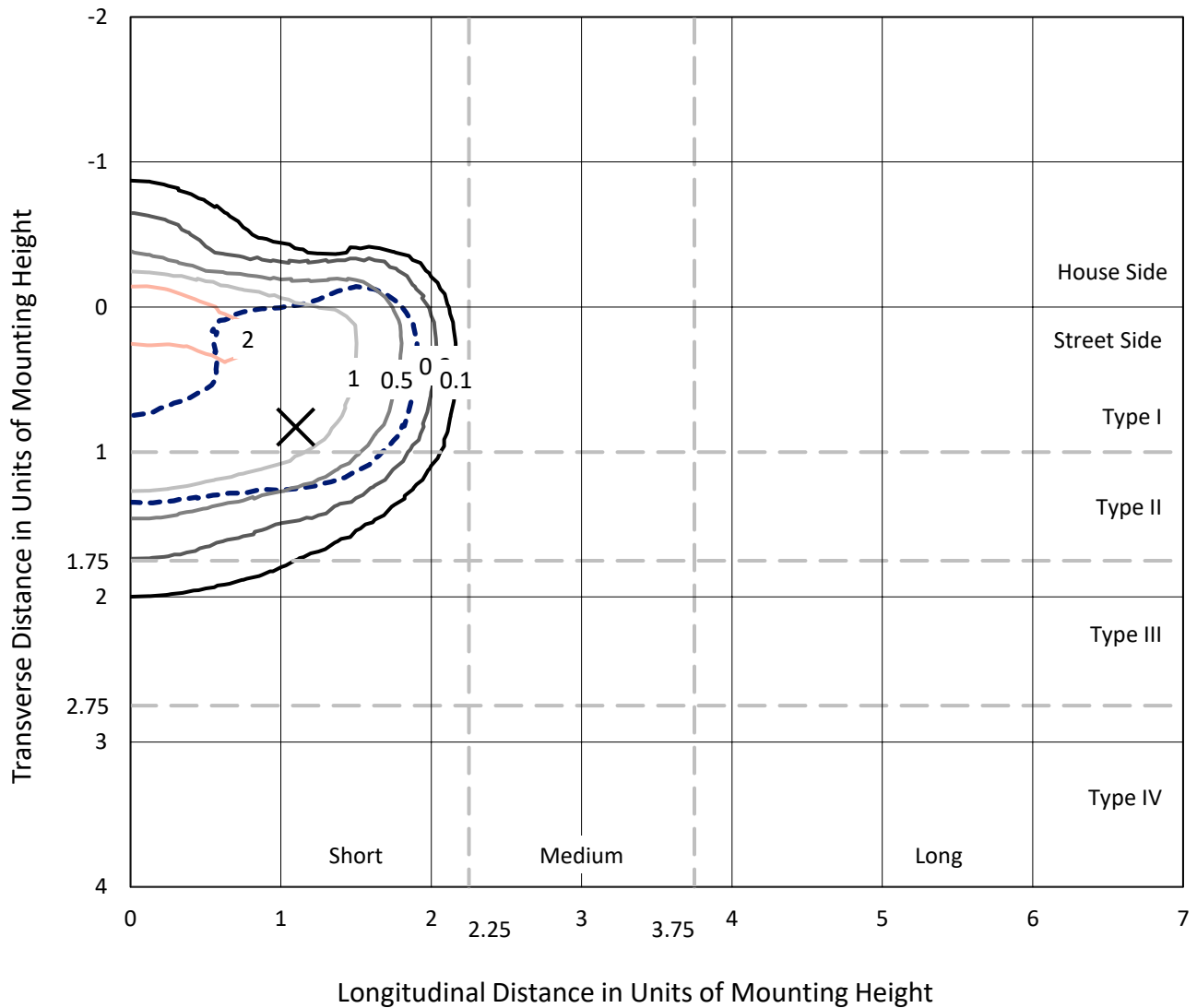
Lumens per Lamp: N/A  
Luminaire Lumens: 5368 lumens  
Efficiency: N/A  
Efficacy: 85.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

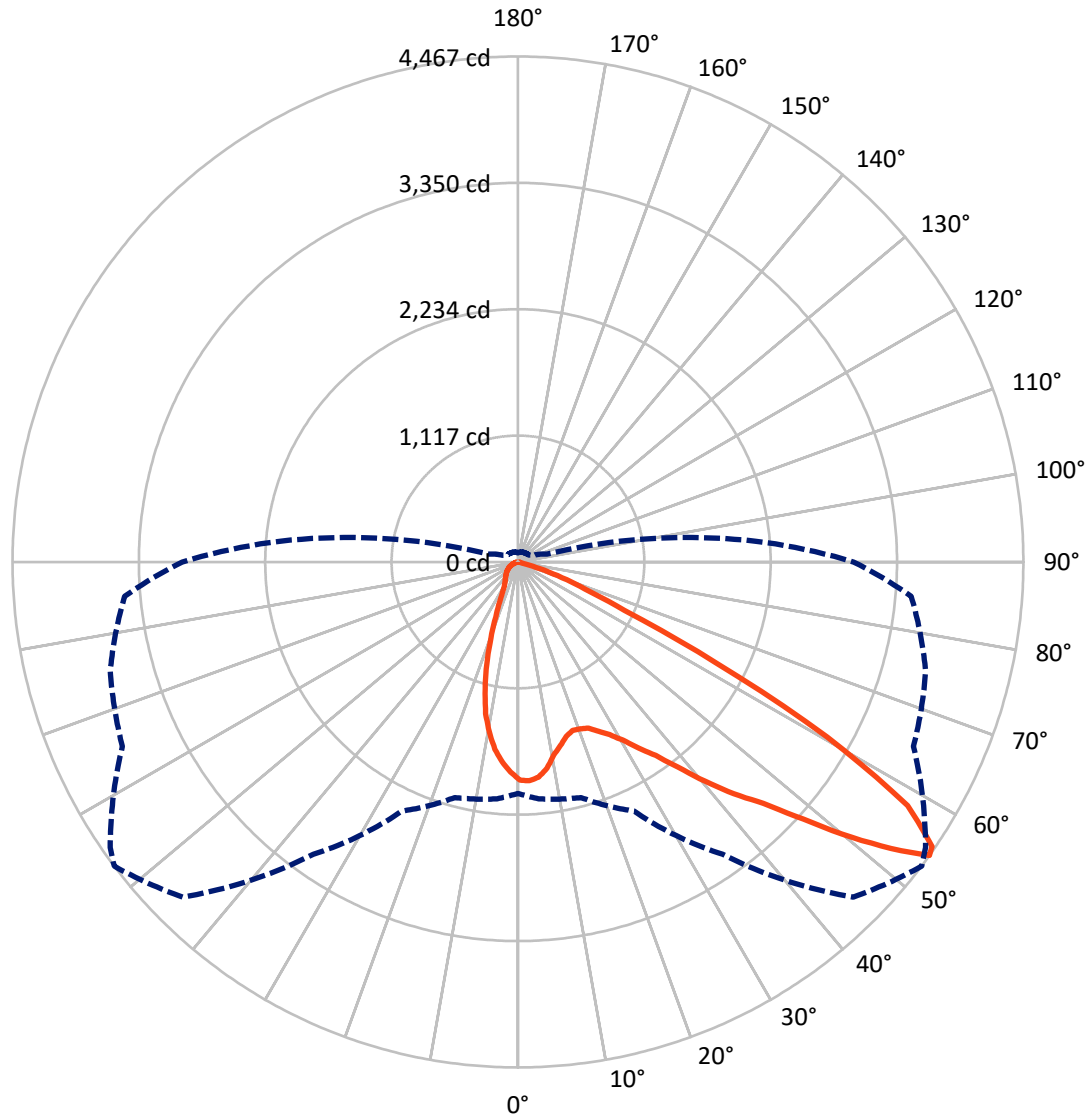
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	888.1	0.0	888.1
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	4479.8	0.0	4479.8
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	5368.0	0.0	5368.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.4	3.1
10°-20°	379.3	7.1
20°-30°	539.0	10.0
30°-40°	831.9	15.5
40°-50°	1304.3	24.3
50°-60°	1515.1	28.2
60°-70°	572.5	10.7
70°-80°	54.4	1.0
80°-90°	6.1	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°	5368.0	100.0
0°-180°	5368.0	100.0

**Coefficient of Utilization**



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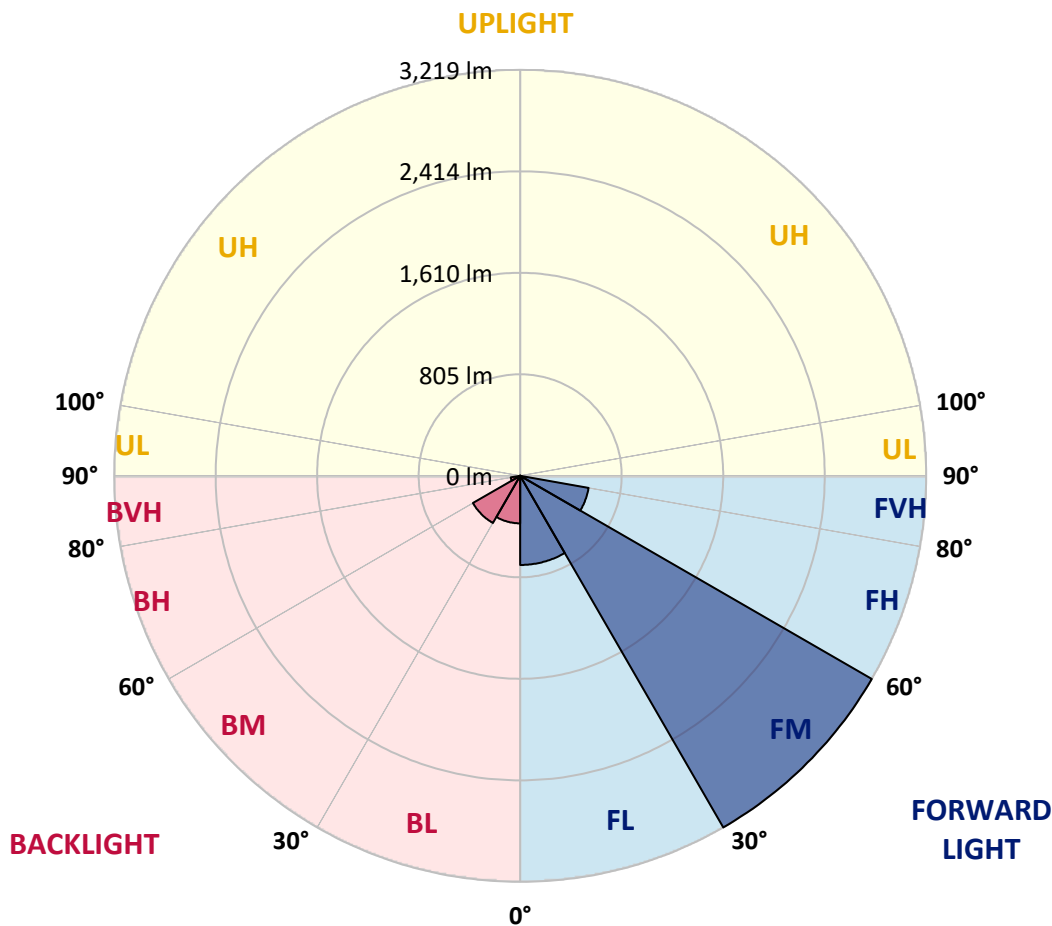
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	706.8	13.2			
FM (30°-60°)	3219.0	60.0			
FH (60°-80°)	550.8	10.3			G0/660
FVH (80°-90°)	3.2	0.1			G0/10
BL (0°-30°)	376.9	7.0	B1/500		
BM (30°-60°)	432.2	8.1	B1/1000		
BH (60°-80°)	76.1	1.4	B0/110		G0/110
BVH (80°-90°)	3.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G0**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	1928.1	1928.1	1928.1	1928.1	1928.1	1928.1	1928.1	1928.1	1928.1	1928.1	1928.1
2.5°	1918.1	1901.1	1918.1	1920.1	1932.1	1943.1	1936.1	1952.1	1943.1	1933.1	1930.1
5°	1763.1	1786.1	1787.1	1823.1	1815.1	1881.1	1910.1	1902.1	1951.1	1948.1	1941.1
7.5°	1624.1	1615.1	1627.1	1669.1	1722.1	1798.1	1840.1	1839.1	1909.1	1959.1	1954.1
10°	1495.1	1494.1	1519.1	1552.1	1597.1	1677.1	1735.1	1764.1	1873.1	1949.1	1960.1
12.5°	1408.1	1404.1	1431.1	1458.1	1529.1	1591.1	1665.1	1679.1	1804.1	1914.1	1932.1
15°	1351.1	1360.1	1362.1	1414.1	1459.1	1541.1	1599.1	1628.1	1772.1	1886.1	1955.1
17.5°	1341.1	1353.1	1354.1	1397.1	1445.1	1514.1	1565.1	1604.1	1745.1	1900.1	1956.1
20°	1361.1	1354.1	1360.1	1387.1	1434.1	1500.1	1574.1	1587.1	1736.1	1907.1	1967.1
22.5°	1418.1	1416.1	1401.1	1423.1	1456.1	1525.1	1595.1	1615.1	1762.1	1943.1	1976.1
25°	1481.1	1492.1	1478.1	1475.1	1498.1	1566.1	1659.1	1685.1	1849.1	2008.1	2004.1
27.5°	1599.1	1588.1	1588.1	1574.1	1568.1	1601.1	1728.1	1771.1	1946.1	2092.1	2036.1
30°	1712.1	1724.1	1715.1	1720.1	1680.1	1677.1	1826.1	1879.1	2118.1	2220.1	2104.1
32.5°	1891.1	1875.1	1890.1	1877.1	1824.1	1770.1	1959.1	2014.1	2326.1	2367.1	2206.1
35°	2040.1	2033.1	2097.1	2095.1	2009.1	1956.1	2100.1	2182.1	2471.1	2543.1	2326.1
37.5°	2252.1	2239.1	2312.1	2347.1	2270.1	2191.1	2302.1	2397.1	2606.1	2684.1	2449.1
40°	2470.1	2503.1	2601.1	2659.1	2577.1	2472.1	2549.1	2578.1	2696.1	2776.1	2533.1
42.5°	2746.1	2794.1	2894.1	2944.1	2937.1	2823.1	2800.1	2799.1	2761.1	2750.1	2595.1
45°	3011.1	2993.1	3147.2	3256.2	3344.2	3311.2	3042.2	3012.1	2864.1	2789.1	2611.1
47.5°	3127.2	3121.2	3226.2	3420.2	3720.2	3761.2	3394.2	3278.2	3038.1	2953.1	2698.1
50°	2977.1	3008.1	3112.2	3327.2	3787.2	4100.2	3826.2	3670.2	3241.2	3153.2	2904.1
52.5°	2487.1	2508.1	2607.1	2880.1	3559.2	4300.2	4240.2	4150.2	3614.2	3468.2	3263.2
54°	2045.1	2101.1	2155.1	2429.1	3153.2	4189.2	4467.2	4398.2	3857.2	3730.2	3489.2
55°	1781.1	1814.1	1853.1	2126.1	2872.1	4001.2	4441.2	4447.2	4020.2	3812.2	3641.2
57.5°	1301.1	1324.1	1284.1	1405.1	1972.1	3249.2	4062.2	4224.2	4240.2	3935.2	3734.2
60°	994.0	1004.0	959.0	978.0	1226.1	2230.1	3142.2	3337.2	3825.2	3439.2	3163.2
62.5°	771.0	773.0	772.0	805.0	845.0	1312.1	1965.1	2138.1	2637.1	2442.1	2148.1
65°	568.0	559.0	575.0	675.0	721.0	825.0	1035.1	1161.1	1433.1	1210.1	865.0
67.5°	368.0	371.0	387.0	502.0	618.0	633.0	637.0	627.0	628.0	346.0	217.0
70°	221.0	226.0	221.0	284.0	442.0	454.0	415.0	405.0	316.0	82.0	81.0
72.5°	131.0	124.0	111.0	122.0	184.0	220.0	198.0	197.0	124.0	48.0	48.0
75°	55.0	50.0	41.0	37.0	49.0	47.0	47.0	42.0	33.0	32.0	30.0
77.5°	11.0	11.0	8.0	9.0	12.0	14.0	17.0	17.0	20.0	20.0	19.0
80°	0.0	1.0	3.0	6.0	9.0	13.0	15.0	15.0	17.0	17.0	14.0
82.5°	0.0	1.0	3.0	6.0	8.0	12.0	15.0	15.0	17.0	18.0	15.0
85°	0.0	1.0	3.0	5.0	8.0	10.0	10.0	9.0	7.0	6.0	4.0
87.5°	0.0	0.0	1.0	2.0	1.0	2.0	2.0	2.0	2.0	2.0	2.0
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°	1928.1	1928.1	1928.1	1928.1	1928.1	1928.1	1928.1	1928.1	1928.1	1928.1	1928.1
2.5°	1937.1	1936.1	1912.1	1873.1	1864.1	1831.1	1827.1	1807.1	1818.1	1781.1	1777.1
5°	1921.1	1909.1	1880.1	1855.1	1782.1	1730.1	1689.1	1639.1	1610.1	1615.1	1596.1
7.5°	1944.1	1913.1	1862.1	1775.1	1686.1	1595.1	1546.1	1444.1	1407.1	1352.1	1344.1
10°	1920.1	1897.1	1818.1	1674.1	1551.1	1420.1	1305.1	1192.1	1106.1	1069.1	1061.1
12.5°	1918.1	1878.1	1746.1	1586.1	1408.1	1220.1	1053.1	912.0	827.0	779.0	768.0
15°	1887.1	1839.1	1665.1	1450.1	1204.1	970.0	788.0	652.0	587.0	559.0	567.0
17.5°	1890.1	1818.1	1584.1	1306.1	1003.0	712.0	538.0	468.0	451.0	458.0	458.0
20°	1887.1	1771.1	1486.1	1140.1	768.0	494.0	395.0	370.0	381.0	403.0	398.0
22.5°	1871.1	1749.1	1396.1	965.0	565.0	366.0	317.0	318.0	335.0	362.0	368.0
25°	1883.1	1700.1	1282.1	788.0	412.0	292.0	275.0	282.0	300.0	320.0	324.0
27.5°	1874.1	1665.1	1163.1	612.0	301.0	251.0	250.0	258.0	266.0	281.0	281.0
30°	1884.1	1633.1	1046.1	455.0	248.0	230.0	226.0	232.0	240.0	243.0	242.0
32.5°	1921.1	1609.1	911.0	340.0	219.0	210.0	210.0	210.0	209.0	213.0	214.0
35°	2002.1	1613.1	792.0	263.0	200.0	193.0	190.0	186.0	184.0	186.0	187.0
37.5°	2090.1	1611.1	669.0	224.0	186.0	180.0	173.0	167.0	166.0	168.0	165.0
40°	2129.1	1630.1	555.0	201.0	173.0	166.0	155.0	150.0	151.0	153.0	151.0
42.5°	2182.1	1636.1	481.0	183.0	161.0	150.0	143.0	137.0	136.0	139.0	138.0
45°	2181.1	1602.1	403.0	173.0	150.0	138.0	129.0	124.0	124.0	126.0	127.0
47.5°	2245.1	1597.1	346.0	164.0	142.0	130.0	119.0	115.0	114.0	114.0	112.0
50°	2394.1	1667.1	302.0	154.0	132.0	121.0	112.0	107.0	103.0	101.0	100.0
52.5°	2685.1	1885.1	268.0	142.0	121.0	112.0	104.0	100.0	95.0	90.0	89.0
54°	2967.1	2110.1	266.0	132.0	112.0	106.0	99.0	97.0	91.0	84.0	82.0
55°	3094.2	2241.1	273.0	124.0	106.0	102.0	96.0	94.0	88.0	80.0	79.0
57.5°	3199.2	2292.1	269.0	103.0	96.0	95.0	90.0	87.0	80.0	69.0	67.0
60°	2575.1	1733.1	193.0	91.0	88.0	86.0	82.0	80.0	71.0	59.0	58.0
62.5°	1627.1	997.0	123.0	80.0	77.0	74.0	69.0	67.0	59.0	47.0	44.0
65°	693.0	413.0	83.0	71.0	66.0	61.0	57.0	54.0	47.0	35.0	34.0
67.5°	180.0	147.0	69.0	62.0	55.0	48.0	45.0	40.0	32.0	24.0	23.0
70°	81.0	74.0	58.0	52.0	44.0	37.0	33.0	28.0	21.0	16.0	15.0
72.5°	48.0	47.0	44.0	39.0	33.0	28.0	24.0	19.0	14.0	9.0	9.0
75°	30.0	29.0	30.0	27.0	23.0	21.0	18.0	13.0	8.0	4.0	4.0
77.5°	18.0	18.0	18.0	17.0	16.0	16.0	13.0	8.0	4.0	1.0	1.0
80°	14.0	14.0	15.0	14.0	14.0	14.0	11.0	6.0	2.0	0.0	0.0
82.5°	14.0	15.0	17.0	16.0	14.0	12.0	10.0	6.0	2.0	0.0	0.0
85°	4.0	3.0	5.0	7.0	10.0	9.0	7.0	5.0	2.0	0.0	0.0
87.5°	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	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)