

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: P527269

Luminaire Tested: **GALN-SA2B-735-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527269  
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-SA2B-735-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 800mA 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: 6222 lumens  
Efficiency: N/A  
Efficacy: 75.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0

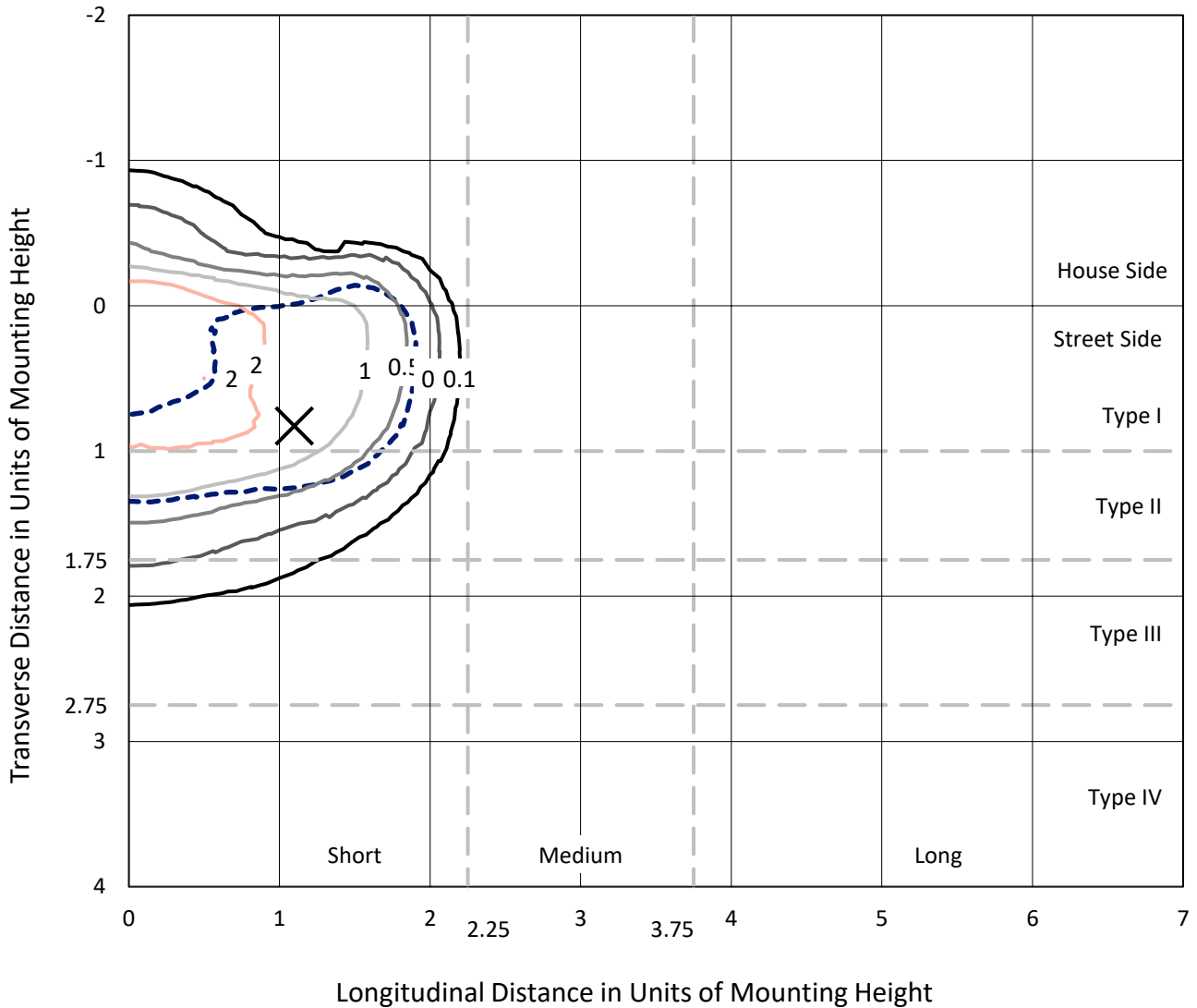
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

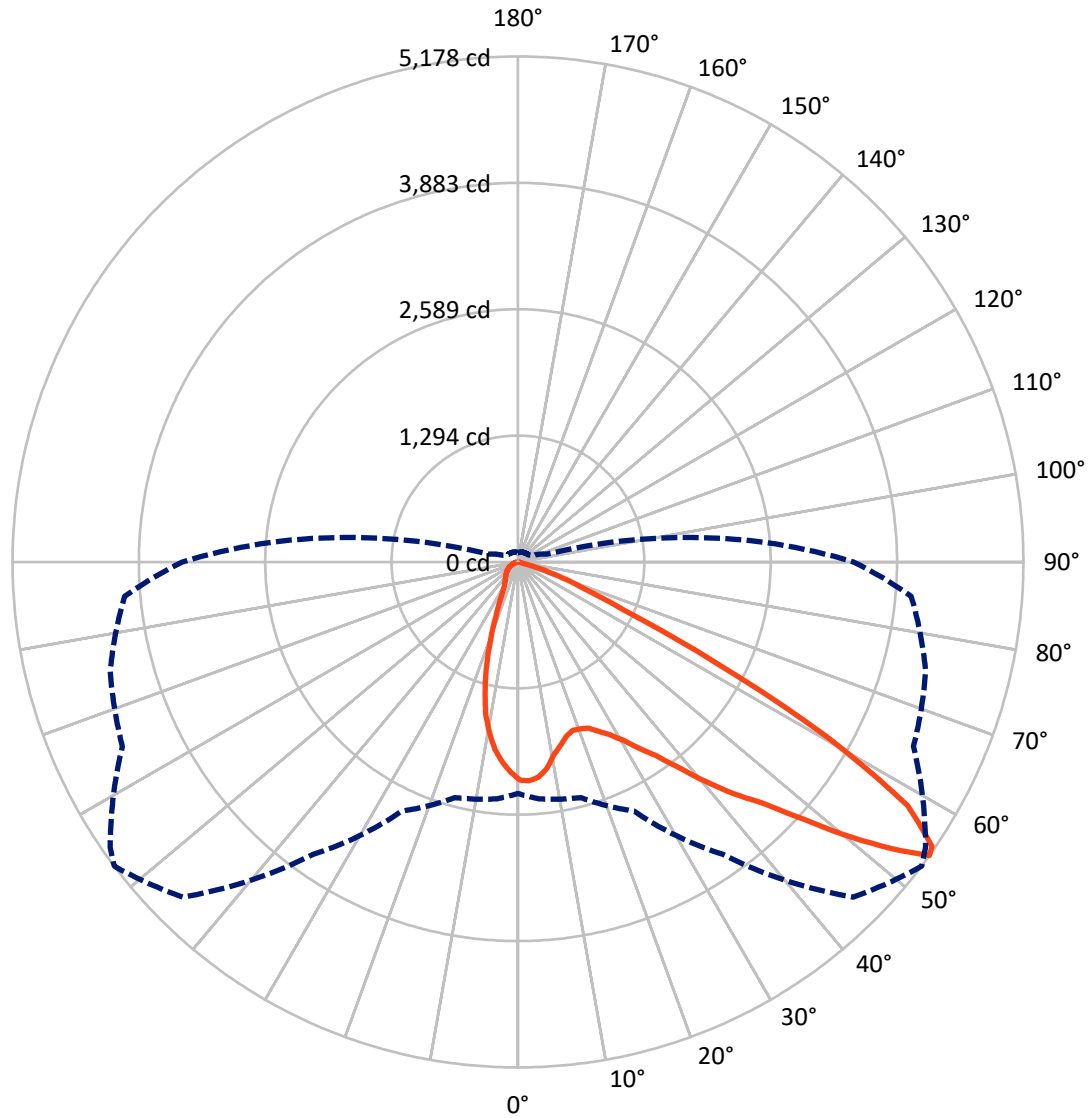
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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	1029.5	0.0	1029.5
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	5192.6	0.0	5192.6
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	6222.0	0.0	6222.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	191.7	3.1
10°-20°	439.6	7.1
20°-30°	624.8	10.0
30°-40°	964.2	15.5
40°-50°	1511.8	24.3
50°-60°	1756.1	28.2
60°-70°	663.6	10.7
70°-80°	63.1	1.0
80°-90°	7.1	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°	6222.0	100.0
0°-180°	6222.0	100.0

**Coefficient of Utilization**



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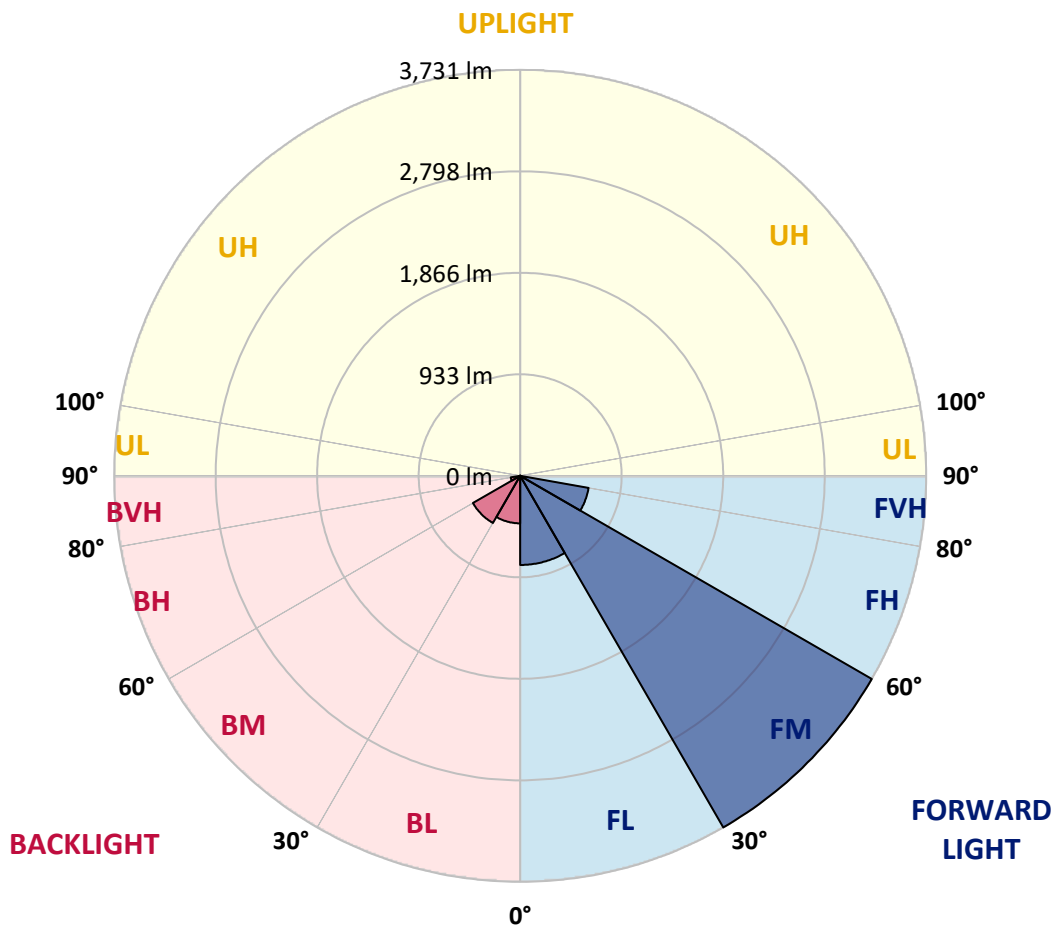
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	819.3	13.2			
FM (30°-60°)	3731.1	60.0			
FH (60°-80°)	638.5	10.3			G0/660
FVH (80°-90°)	3.7	0.1			G0/10
BL (0°-30°)	436.9	7.0	B1/500		
BM (30°-60°)	501.0	8.1	B1/1000		
BH (60°-80°)	88.2	1.4	B0/110		G0/110
BVH (80°-90°)	3.4	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°	2234.8	2234.8	2234.8	2234.8	2234.8	2234.8	2234.8	2234.8	2234.8	2234.8	2234.8
2.5°	2223.2	2203.5	2223.2	2225.6	2239.5	2252.2	2244.1	2262.7	2252.2	2240.6	2237.2
5°	2043.6	2070.2	2071.4	2113.1	2103.9	2180.4	2214.0	2204.7	2261.5	2258.0	2249.9
7.5°	1882.5	1872.0	1885.9	1934.6	1996.1	2084.1	2132.8	2131.7	2212.8	2270.8	2265.0
10°	1732.9	1731.8	1760.7	1799.0	1851.2	1943.9	2011.1	2044.7	2171.1	2259.2	2271.9
12.5°	1632.1	1627.4	1658.7	1690.0	1772.3	1844.2	1930.0	1946.2	2091.1	2218.6	2239.5
15°	1566.0	1576.4	1578.8	1639.0	1691.2	1786.2	1853.5	1887.1	2054.0	2186.2	2266.1
17.5°	1554.4	1568.3	1569.5	1619.3	1675.0	1755.0	1814.1	1859.3	2022.7	2202.4	2267.3
20°	1577.6	1569.5	1576.4	1607.7	1662.2	1738.7	1824.5	1839.6	2012.3	2210.5	2280.0
22.5°	1643.7	1641.4	1624.0	1649.5	1687.7	1767.7	1848.8	1872.0	2042.4	2252.2	2290.5
25°	1716.7	1729.4	1713.2	1709.7	1736.4	1815.2	1923.0	1953.2	2143.3	2327.6	2322.9
27.5°	1853.5	1840.7	1840.7	1824.5	1817.5	1855.8	2003.0	2052.9	2255.7	2424.9	2360.0
30°	1984.5	1998.4	1987.9	1993.7	1947.4	1943.9	2116.6	2178.0	2455.1	2573.3	2438.8
32.5°	2191.9	2173.4	2190.8	2175.7	2114.3	2051.7	2270.8	2334.5	2696.2	2743.7	2557.1
35°	2364.7	2356.5	2430.7	2428.4	2328.7	2267.3	2434.2	2529.3	2864.3	2947.7	2696.2
37.5°	2610.4	2595.3	2680.0	2720.5	2631.3	2539.7	2668.4	2778.5	3020.7	3111.2	2838.8
40°	2863.1	2901.3	3014.9	3082.2	2987.1	2865.4	2954.7	2988.3	3125.1	3217.8	2936.1
42.5°	3183.0	3238.7	3354.6	3412.5	3404.4	3272.3	3245.6	3244.5	3200.4	3187.7	3008.0
45°	3490.2	3469.3	3647.8	3774.2	3876.2	3837.9	3526.1	3491.4	3319.8	3232.9	3026.5
47.5°	3624.7	3617.7	3739.4	3964.3	4312.0	4359.6	3934.1	3799.7	3521.5	3423.0	3127.4
50°	3450.8	3486.7	3607.3	3856.5	4389.7	4752.5	4434.9	4254.1	3756.8	3654.8	3366.2
52.5°	2882.8	2907.1	3021.9	3338.3	4125.4	4984.3	4914.8	4810.5	4189.2	4019.9	3782.3
54°	2370.5	2435.4	2498.0	2815.6	3654.8	4855.7	5177.9	5097.9	4470.8	4323.6	4044.3
55°	2064.4	2102.7	2147.9	2464.3	3329.1	4637.8	5147.8	5154.7	4659.8	4418.7	4220.5
57.5°	1508.1	1534.7	1488.3	1628.6	2285.8	3766.1	4708.5	4896.2	4914.8	4561.2	4328.3
60°	1152.2	1163.8	1111.6	1133.6	1421.1	2584.9	3642.0	3868.1	4433.7	3986.3	3666.4
62.5°	893.7	896.0	894.9	933.1	979.5	1520.8	2277.7	2478.3	3056.7	2830.6	2489.9
65°	658.4	648.0	666.5	782.4	835.7	956.3	1199.7	1345.8	1661.1	1402.6	1002.7
67.5°	426.6	430.0	448.6	581.9	716.4	733.7	738.4	726.8	727.9	401.1	251.5
70°	256.2	262.0	256.2	329.2	512.3	526.3	481.0	469.5	366.3	95.1	93.9
72.5°	151.8	143.7	128.7	141.4	213.3	255.0	229.5	228.4	143.7	55.6	55.6
75°	63.8	58.0	47.5	42.9	56.8	54.5	54.5	48.7	38.3	37.1	34.8
77.5°	12.8	12.8	9.3	10.4	13.9	16.2	19.7	19.7	23.2	23.2	22.0
80°	0.0	1.2	3.5	7.0	10.4	15.1	17.4	17.4	19.7	19.7	16.2
82.5°	0.0	1.2	3.5	7.0	9.3	13.9	17.4	17.4	19.7	20.9	17.4
85°	0.0	1.2	3.5	5.8	9.3	11.6	11.6	10.4	8.1	7.0	4.6
87.5°	0.0	0.0	1.2	2.3	1.2	2.3	2.3	2.3	2.3	2.3	2.3
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°	2234.8	2234.8	2234.8	2234.8	2234.8	2234.8	2234.8	2234.8	2234.8	2234.8	2234.8
2.5°	2245.3	2244.1	2216.3	2171.1	2160.7	2122.4	2117.8	2094.6	2107.3	2064.4	2059.8
5°	2226.7	2212.8	2179.2	2150.2	2065.6	2005.3	1957.8	1899.8	1866.2	1872.0	1850.0
7.5°	2253.4	2217.5	2158.3	2057.5	1954.3	1848.8	1792.0	1673.8	1630.9	1567.2	1557.9
10°	2225.6	2198.9	2107.3	1940.4	1797.8	1646.0	1512.7	1381.7	1282.0	1239.1	1229.9
12.5°	2223.2	2176.9	2023.9	1838.4	1632.1	1414.2	1220.6	1057.1	958.6	903.0	890.2
15°	2187.3	2131.7	1930.0	1680.8	1395.6	1124.4	913.4	755.8	680.4	648.0	657.2
17.5°	2190.8	2107.3	1836.1	1513.8	1162.6	825.3	623.6	542.5	522.8	530.9	530.9
20°	2187.3	2052.9	1722.5	1321.4	890.2	572.6	457.9	428.9	441.6	467.1	461.3
22.5°	2168.8	2027.3	1618.2	1118.6	654.9	424.2	367.4	368.6	388.3	419.6	426.6
25°	2182.7	1970.6	1486.0	913.4	477.6	338.5	318.8	326.9	347.7	370.9	375.6
27.5°	2172.2	1930.0	1348.1	709.4	348.9	290.9	289.8	299.1	308.3	325.7	325.7
30°	2183.8	1892.9	1212.5	527.4	287.5	266.6	262.0	268.9	278.2	281.7	280.5
32.5°	2226.7	1865.1	1056.0	394.1	253.9	243.4	243.4	243.4	242.3	246.9	248.1
35°	2320.6	1869.7	918.0	304.9	231.8	223.7	220.2	215.6	213.3	215.6	216.8
37.5°	2422.6	1867.4	775.5	259.6	215.6	208.6	200.5	193.6	192.4	194.7	191.3
40°	2467.8	1889.4	643.3	233.0	200.5	192.4	179.7	173.9	175.0	177.3	175.0
42.5°	2529.3	1896.4	557.6	212.1	186.6	173.9	165.8	158.8	157.6	161.1	160.0
45°	2528.1	1857.0	467.1	200.5	173.9	160.0	149.5	143.7	143.7	146.1	147.2
47.5°	2602.3	1851.2	401.1	190.1	164.6	150.7	137.9	133.3	132.1	132.1	129.8
50°	2775.0	1932.3	350.1	178.5	153.0	140.3	129.8	124.0	119.4	117.1	115.9
52.5°	3112.3	2185.0	310.7	164.6	140.3	129.8	120.6	115.9	110.1	104.3	103.2
54°	3439.2	2445.8	308.3	153.0	129.8	122.9	114.8	112.4	105.5	97.4	95.1
55°	3586.4	2597.7	316.4	143.7	122.9	118.2	111.3	109.0	102.0	92.7	91.6
57.5°	3708.1	2656.8	311.8	119.4	111.3	110.1	104.3	100.8	92.7	80.0	77.7
60°	2984.8	2008.8	223.7	105.5	102.0	99.7	95.1	92.7	82.3	68.4	67.2
62.5°	1885.9	1155.7	142.6	92.7	89.3	85.8	80.0	77.7	68.4	54.5	51.0
65°	803.3	478.7	96.2	82.3	76.5	70.7	66.1	62.6	54.5	40.6	39.4
67.5°	208.6	170.4	80.0	71.9	63.8	55.6	52.2	46.4	37.1	27.8	26.7
70°	93.9	85.8	67.2	60.3	51.0	42.9	38.3	32.5	24.3	18.5	17.4
72.5°	55.6	54.5	51.0	45.2	38.3	32.5	27.8	22.0	16.2	10.4	10.4
75°	34.8	33.6	34.8	31.3	26.7	24.3	20.9	15.1	9.3	4.6	4.6
77.5°	20.9	20.9	20.9	19.7	18.5	18.5	15.1	9.3	4.6	1.2	1.2
80°	16.2	16.2	17.4	16.2	16.2	16.2	12.8	7.0	2.3	0.0	0.0
82.5°	16.2	17.4	19.7	18.5	16.2	13.9	11.6	7.0	2.3	0.0	0.0
85°	4.6	3.5	5.8	8.1	11.6	10.4	8.1	5.8	2.3	0.0	0.0
87.5°	2.3	2.3	2.3	2.3	1.2	1.2	1.2	1.2	1.2	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)