

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: P451634

Luminaire Tested: **GALN-SA2C-730-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451634
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-730-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10081 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

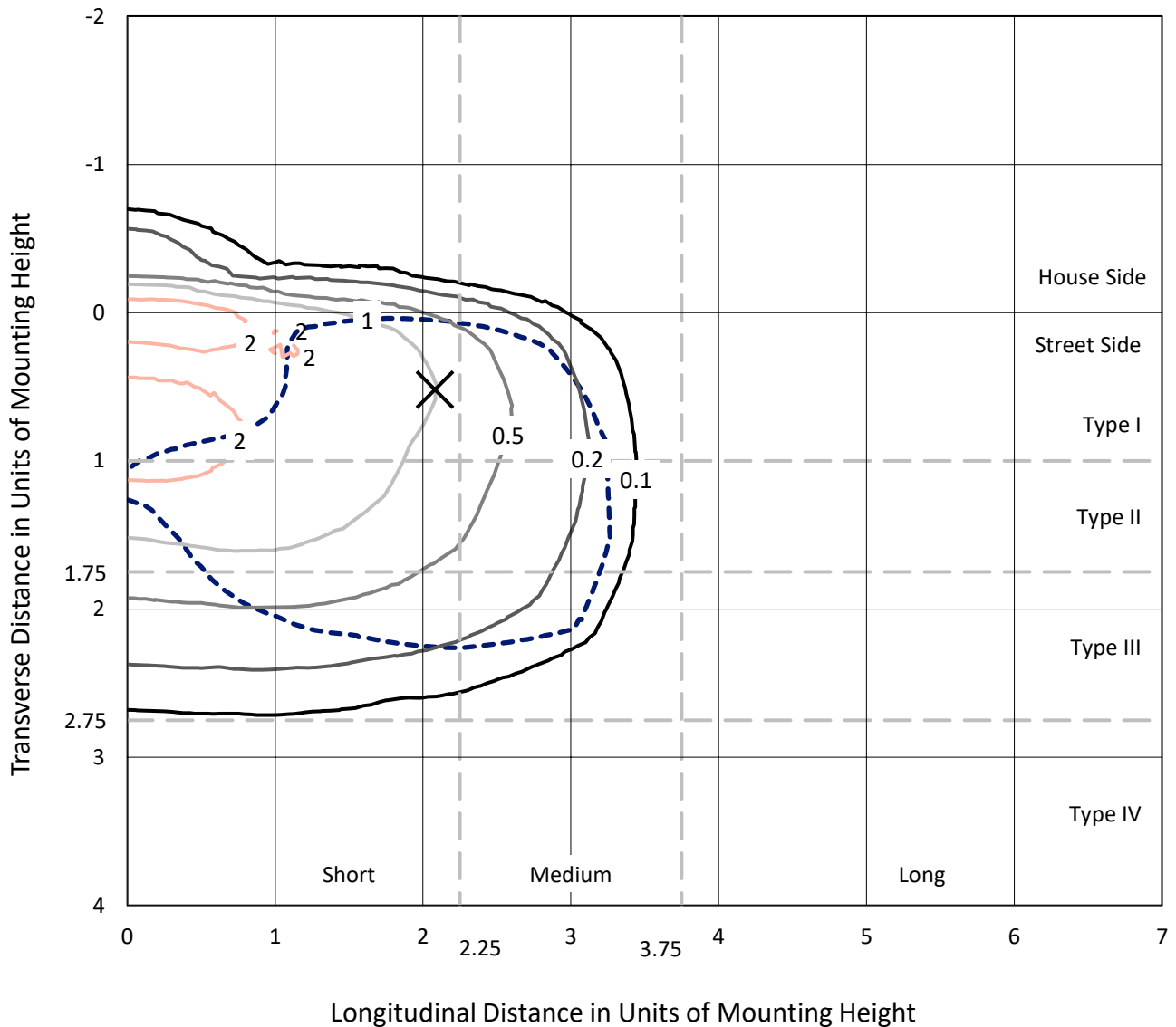
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

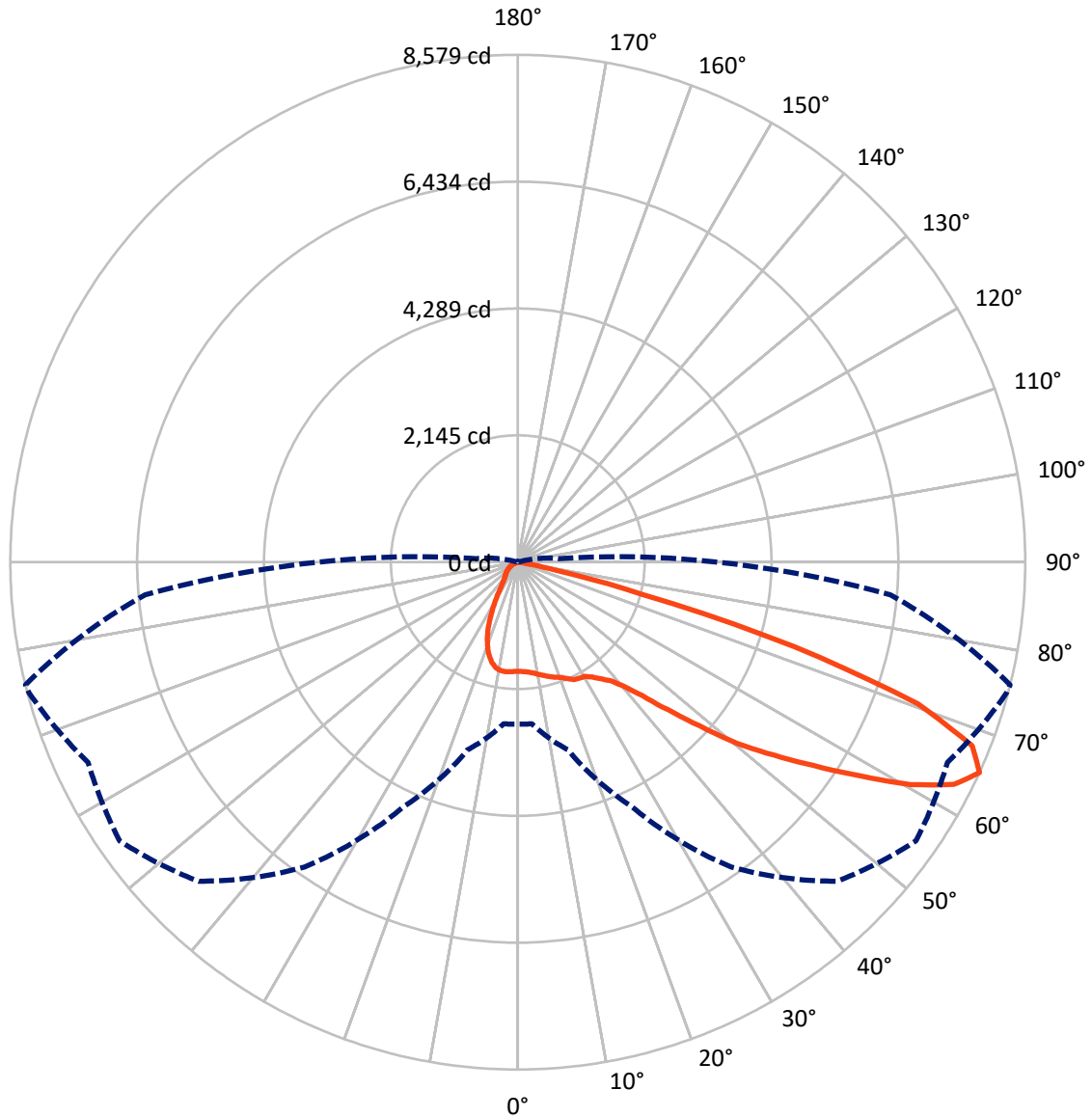
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	728.0	0.0	728.0
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	9352.9	0.0	9352.9
	% Fixture	92.8	0.0	92.8
Total	Lumens	10081.0	0.0	10081.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.9	1.5
10°-20°	338.2	3.4
20°-30°	545.1	5.4
30°-40°	947.7	9.4
40°-50°	1566.0	15.5
50°-60°	2419.2	24.0
60°-70°	2954.2	29.3
70°-80°	1121.2	11.1
80°-90°	37.4	0.4
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°	10081.0	100.0
0°-180°	10081.0	100.0

Coefficient of Utilization



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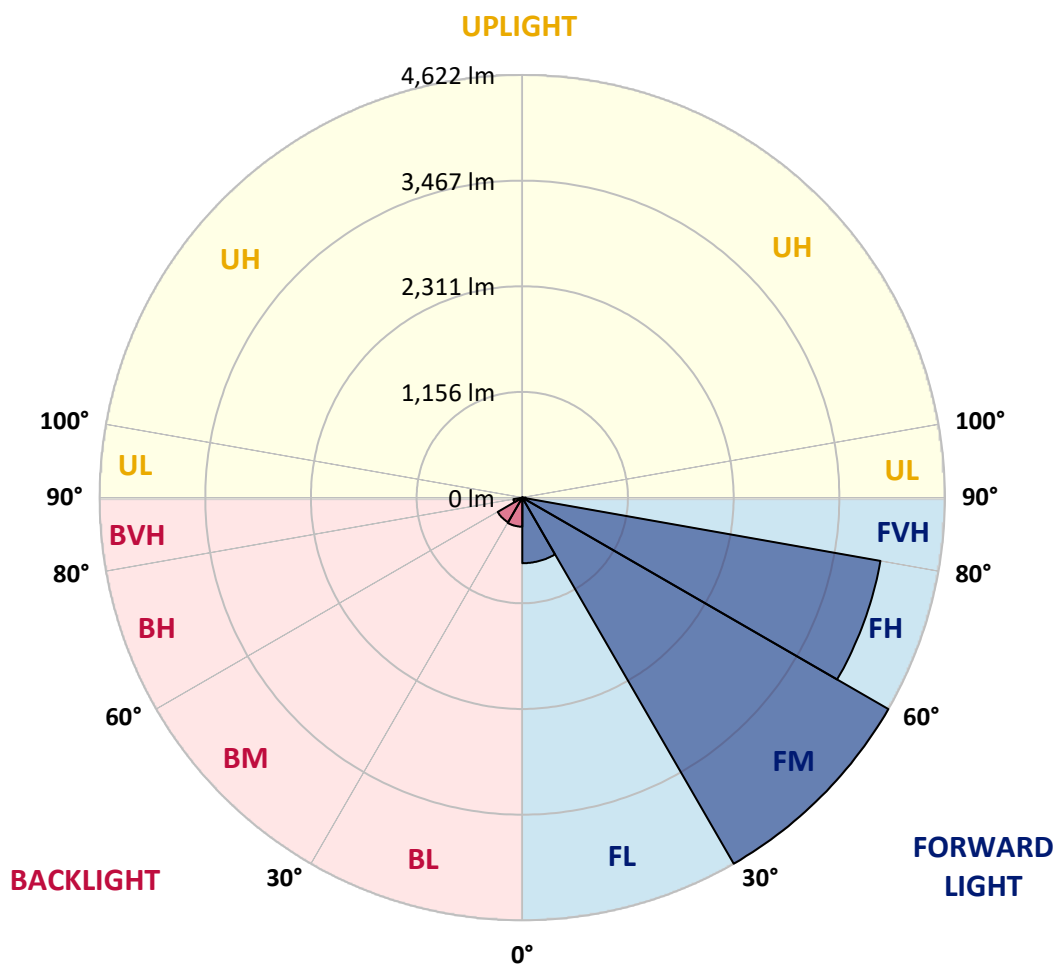
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	717.1	7.1			
FM (30°-60°)	4622.3	45.9			
FH (60°-80°)	3976.6	39.4			G2/5000
FVH (80°-90°)	36.9	0.4			G1/100
BL (0°-30°)	318.1	3.2	B1/500		
BM (30°-60°)	310.7	3.1	B1/1000		
BH (60°-80°)	98.8	1.0	B0/110		G0/110
BVH (80°-90°)	0.5	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1844.1	1844.1	1844.1	1844.1	1844.1	1844.1	1844.1	1844.1	1844.1	1844.1	1844.1
2.5°	1762.3	1763.0	1767.3	1777.9	1794.3	1807.8	1819.2	1837.7	1850.5	1852.0	1856.2
5°	1640.6	1632.0	1640.6	1668.3	1693.2	1731.0	1777.2	1823.5	1864.8	1867.6	1887.6
7.5°	1503.9	1511.0	1524.6	1553.0	1600.0	1657.7	1724.6	1807.1	1885.4	1892.5	1931.7
10°	1365.1	1380.8	1402.9	1446.3	1511.8	1586.5	1677.6	1795.7	1918.2	1928.1	1995.7
12.5°	1237.0	1244.1	1271.2	1329.5	1410.7	1516.0	1642.0	1789.3	1954.5	1966.6	2064.1
15°	1138.8	1148.0	1171.5	1224.2	1314.6	1449.8	1612.8	1787.2	1990.0	2007.1	2132.4
17.5°	1120.3	1126.0	1135.9	1171.5	1250.5	1397.2	1586.5	1786.5	2024.2	2044.8	2195.7
20°	1196.4	1191.5	1181.5	1177.9	1221.4	1356.6	1567.3	1792.2	2056.9	2080.4	2262.6
22.5°	1387.2	1393.6	1335.2	1266.2	1252.0	1350.2	1564.4	1819.2	2108.9	2136.7	2337.4
25°	1792.2	1743.1	1652.0	1486.8	1362.3	1389.3	1596.4	1883.3	2169.4	2200.0	2405.0
27.5°	2239.9	2224.9	2083.3	1811.4	1579.4	1471.9	1653.4	1932.4	2189.3	2220.7	2443.4
30°	2679.7	2697.5	2535.2	2234.9	1894.7	1624.9	1706.8	1950.9	2207.1	2239.9	2492.5
32.5°	3087.6	3108.9	2966.6	2669.1	2266.2	1889.7	1798.6	2022.8	2281.9	2315.3	2574.4
35°	3408.6	3411.4	3303.9	3066.9	2671.9	2211.4	1997.2	2148.8	2382.9	2422.1	2661.2
37.5°	3703.2	3698.9	3573.0	3368.7	3010.0	2531.0	2247.0	2294.0	2498.2	2538.8	2786.5
40°	3921.7	3924.6	3884.0	3691.8	3325.3	2826.3	2444.9	2429.9	2691.8	2755.2	2968.7
42.5°	4067.6	4094.0	4113.9	4016.4	3721.7	3190.1	2748.8	2721.0	3027.8	3080.4	3226.3
45°	4185.8	4232.8	4332.4	4327.4	4102.5	3636.3	3165.9	3108.9	3503.9	3560.2	3554.5
47.5°	4271.9	4319.6	4484.7	4584.4	4460.5	4069.1	3690.4	3641.3	4072.6	4133.8	3916.7
50°	4316.0	4373.0	4583.7	4776.5	4740.2	4486.1	4288.3	4291.1	4759.5	4818.5	4336.7
52.5°	4212.8	4286.9	4636.3	4983.7	5054.1	4885.4	4848.4	4942.4	5370.8	5421.4	4716.0
55°	3883.3	3976.5	4564.4	5160.2	5417.8	5356.6	5484.7	5627.8	6039.2	6071.9	5105.4
57.5°	3674.8	3773.7	4352.3	5310.3	5854.8	5948.8	6151.6	6256.3	6728.9	6812.1	5552.3
60°	3498.9	3576.5	4178.0	5342.4	6299.0	6673.3	6870.5	6978.7	7580.1	7634.2	6044.2
62.5°	3206.4	3295.4	3883.3	5118.9	6522.5	7253.4	7662.0	7613.6	8238.5	8276.2	6345.9
65°	2736.0	2743.8	3285.4	4557.3	6291.8	7629.9	8217.8	8015.0	8553.1	8578.7	6322.4
67.5°	2042.0	2117.4	2527.4	3582.2	5314.6	7308.2	8397.9	8025.7	8354.5	8283.3	5820.7
70°	1315.3	1373.0	1713.2	2484.0	3832.0	6099.0	7800.7	7475.5	7332.4	7174.4	4764.4
72.5°	607.1	681.1	1017.8	1419.2	2272.6	4344.5	6332.4	6073.3	5277.6	4887.6	3028.5
75°	264.8	283.3	502.5	748.8	1065.5	2297.5	4175.1	3770.1	2383.6	2177.2	1212.1
77.5°	161.6	173.7	263.3	401.4	418.5	875.4	2249.1	1644.8	736.7	649.8	328.8
80°	109.6	123.1	191.5	210.0	143.1	244.1	844.1	439.1	148.8	142.3	70.5
82.5°	53.4	67.6	141.6	117.4	61.9	78.3	245.6	94.0	43.4	40.6	24.9
85°	7.8	13.5	79.7	76.9	27.8	18.5	43.4	23.5	14.9	14.2	11.4
87.5°	0.0	0.0	27.0	12.1	2.8	2.8	5.0	5.0	5.7	5.0	5.7
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°	1844.1	1844.1	1844.1	1844.1	1844.1	1844.1	1844.1	1844.1	1844.1	1844.1	1844.1
2.5°	1858.4	1861.9	1848.4	1829.2	1808.5	1787.9	1758.7	1732.4	1716.7	1726.0	1703.2
5°	1891.8	1889.0	1853.4	1795.0	1717.4	1624.2	1531.7	1452.7	1427.1	1388.6	1384.3
7.5°	1938.1	1930.3	1854.8	1721.0	1545.9	1370.8	1200.0	1086.8	1022.1	967.3	968.7
10°	2002.9	1980.1	1838.4	1590.8	1302.5	1038.4	820.6	671.2	606.4	585.8	569.4
12.5°	2069.8	2025.6	1792.9	1415.0	1014.2	709.6	498.9	407.8	368.0	355.2	353.7
15°	2129.5	2059.8	1713.2	1203.6	737.4	453.4	340.2	310.3	305.3	306.1	305.3
17.5°	2188.6	2086.8	1602.9	979.4	501.1	325.3	292.5	285.4	287.5	290.4	289.7
20°	2237.7	2092.5	1461.9	747.3	354.5	285.4	274.7	273.3	275.4	277.6	277.6
22.5°	2291.1	2096.8	1294.7	517.4	289.7	265.5	259.8	259.8	262.6	265.5	266.2
25°	2331.0	2073.3	1094.7	371.5	255.5	246.3	243.4	244.1	247.0	248.4	247.7
27.5°	2337.4	2007.1	882.6	284.7	232.0	222.8	219.9	222.8	219.2	221.4	219.9
30°	2343.1	1923.1	667.6	239.9	210.7	196.4	192.2	187.9	185.1	181.5	180.8
32.5°	2360.9	1824.2	487.5	215.7	190.7	175.1	165.1	153.0	143.8	140.9	140.2
35°	2368.7	1705.3	358.0	196.4	173.0	155.9	138.1	121.0	107.5	102.5	106.1
37.5°	2398.6	1590.0	277.6	182.2	157.3	135.9	113.2	91.8	79.0	76.2	77.6
40°	2459.8	1464.8	232.7	170.1	143.8	117.4	89.7	69.0	60.5	57.7	56.9
42.5°	2558.0	1340.2	207.1	158.7	130.2	98.9	70.5	54.1	47.0	44.8	44.8
45°	2677.6	1220.6	189.3	146.6	116.0	79.7	55.5	43.4	39.1	37.7	37.7
47.5°	2834.9	1116.0	174.4	134.5	100.4	63.3	44.8	37.7	34.9	35.6	36.3
50°	2994.3	1038.4	158.0	121.0	82.6	52.0	38.4	33.5	32.7	33.5	33.5
52.5°	3114.6	992.9	135.9	102.5	64.8	43.4	34.2	31.3	30.6	29.2	29.2
55°	3276.9	982.9	108.2	83.3	51.2	36.3	30.6	28.5	26.3	24.9	24.2
57.5°	3485.4	994.3	83.3	64.8	39.9	29.9	27.0	23.5	20.6	17.8	17.8
60°	3615.0	968.7	64.8	49.8	29.2	24.2	20.6	17.1	13.5	11.4	10.7
62.5°	3573.7	860.5	51.2	37.0	20.6	17.8	13.5	11.4	7.8	5.7	5.0
65°	3360.9	694.7	41.3	25.6	14.9	10.7	7.1	7.1	3.6	0.7	0.0
67.5°	2941.7	514.6	32.7	17.1	8.5	5.0	3.6	2.1	0.0	0.0	0.0
70°	2394.3	371.5	25.6	10.7	5.0	3.6	1.4	0.7	0.0	0.0	0.0
72.5°	1520.3	212.8	19.9	6.4	3.6	1.4	0.0	0.0	0.0	0.0	0.0
75°	587.9	83.3	13.5	4.3	1.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	166.5	39.1	7.8	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	43.4	17.1	4.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	20.6	7.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.1	2.8	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.7	0.7	0.0	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)