

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: P528191

Luminaire Tested: **GALN-SA3B-730-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528191
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-730-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9238 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

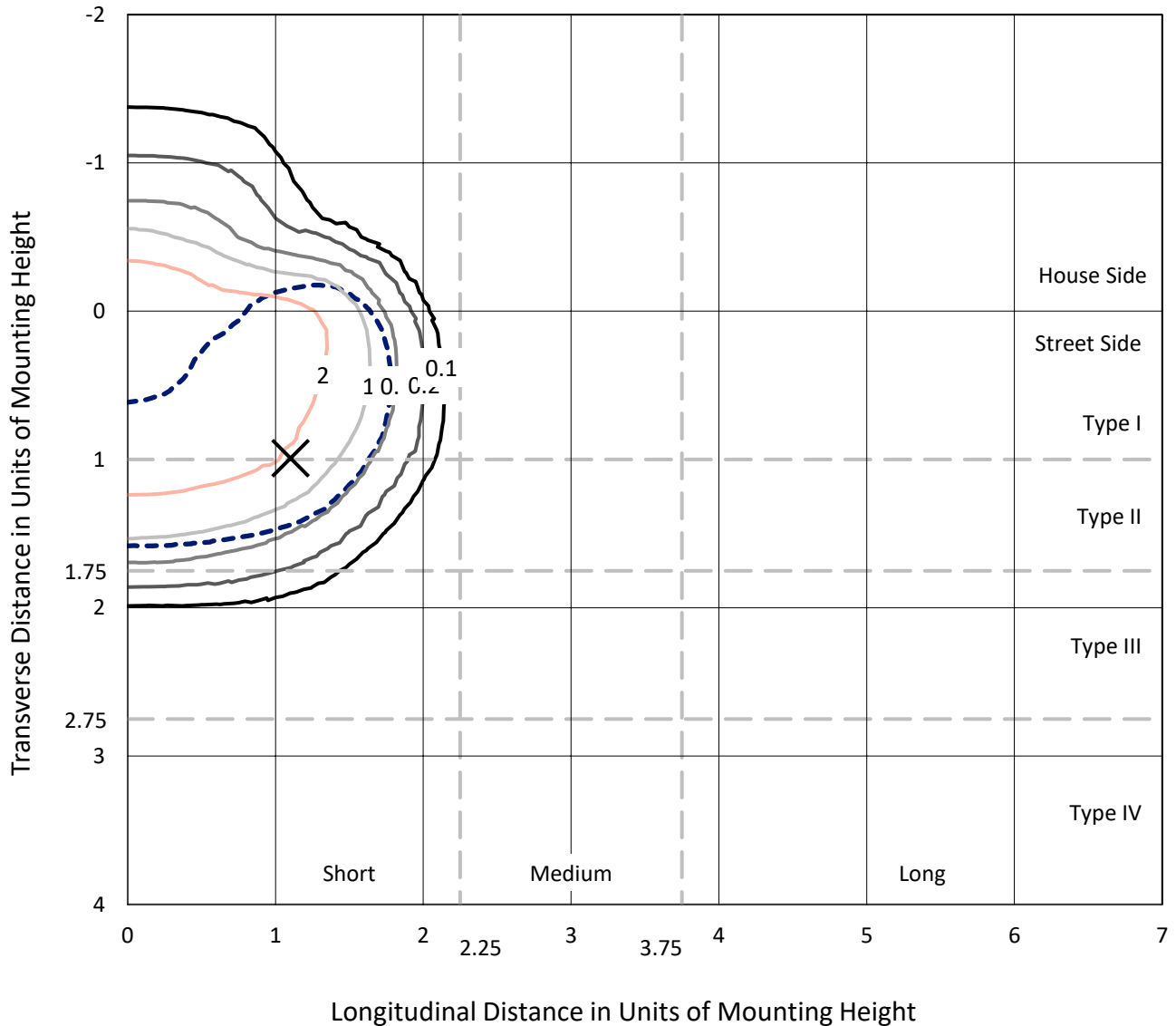
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

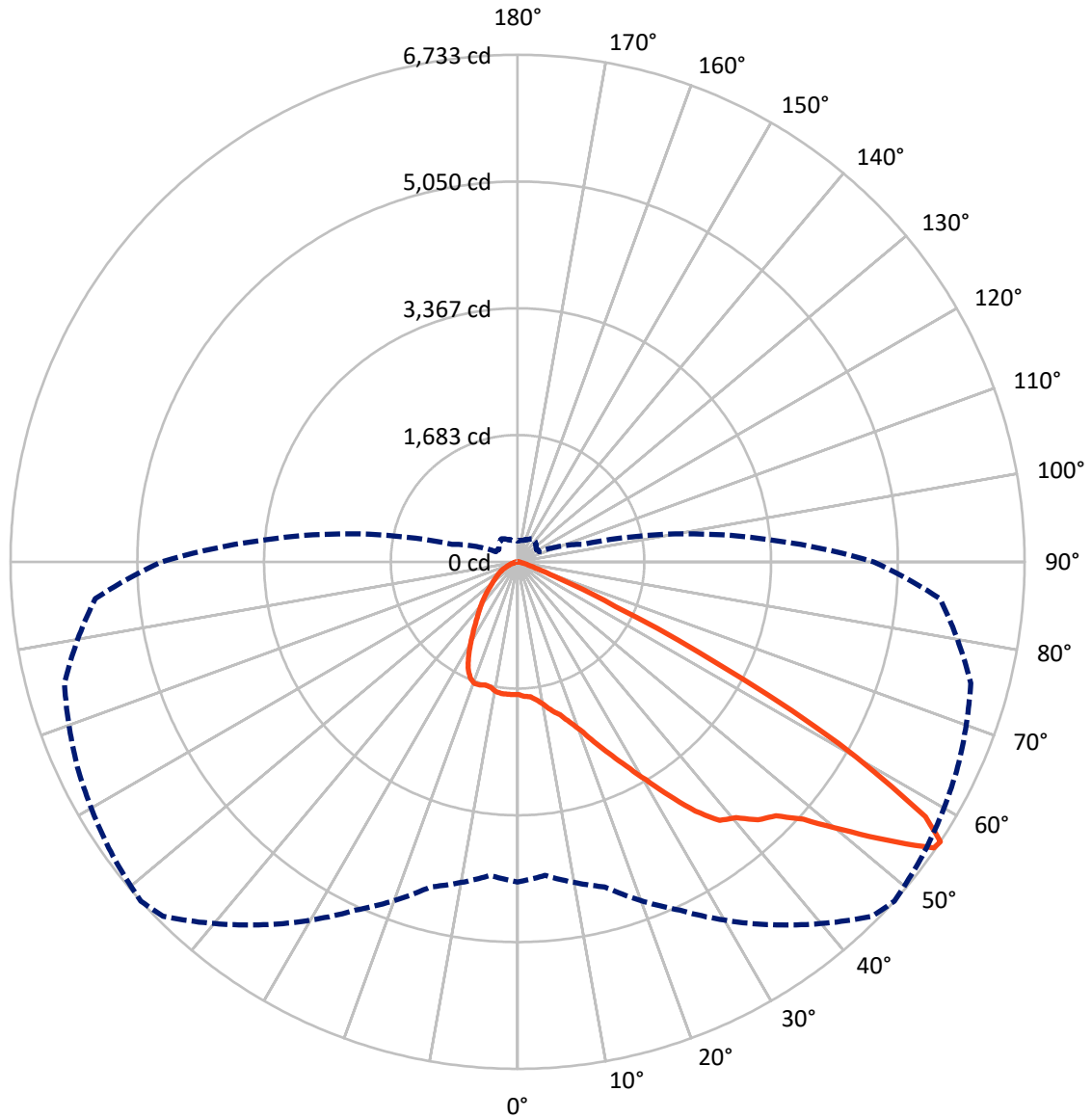
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2009.1	0.0	2009.1
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	7228.9	0.0	7228.9
	% Fixture	78.3	0.0	78.3
Total	Lumens	9238.0	0.0	9238.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.9	1.9
10°-20°	549.3	5.9
20°-30°	996.3	10.8
30°-40°	1565.0	16.9
40°-50°	2283.1	24.7
50°-60°	2750.6	29.8
60°-70°	805.4	8.7
70°-80°	102.2	1.1
80°-90°	14.3	0.2
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°	9238.0	100.0
0°-180°	9238.0	100.0

Coefficient of Utilization

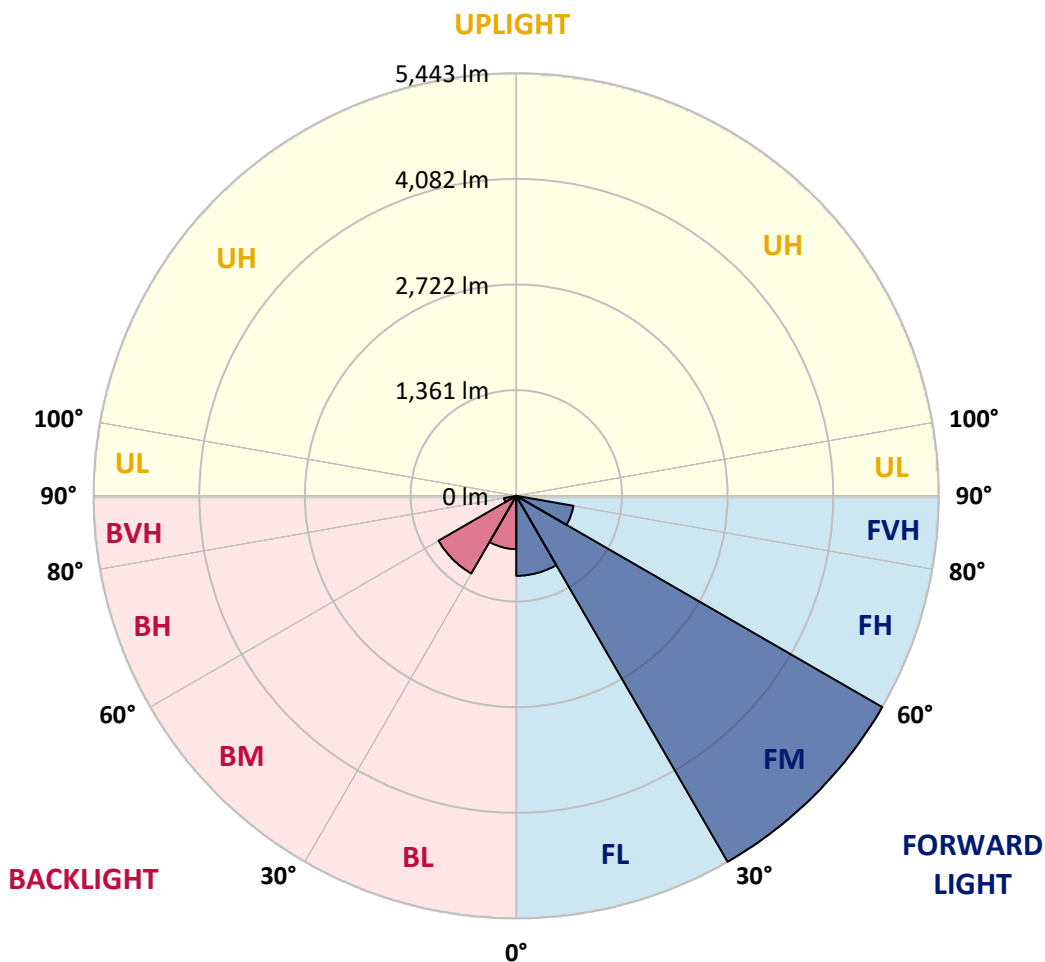


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1030.8	11.2			
FM (30°-60°)	5443.1	58.9			
FH (60°-80°)	747.9	8.1			G1/1800
FVH (80°-90°)	7.2	0.1			G0/10
BL (0°-30°)	686.7	7.4	B2/1000		
BM (30°-60°)	1155.6	12.5	B2/2500		
BH (60°-80°)	159.6	1.7	B1/500		G1/500
BVH (80°-90°)	7.1	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	1764.5	1764.5	1764.5	1764.5	1764.5	1764.5	1764.5	1764.5	1764.5	1764.5	1764.5
2.5°	1796.4	1788.0	1788.0	1774.6	1789.7	1783.0	1788.0	1771.2	1788.0	1762.8	1783.0
5°	1804.8	1806.5	1799.8	1808.2	1808.2	1818.3	1801.5	1816.6	1825.0	1806.5	1798.1
7.5°	1848.6	1851.9	1850.2	1843.5	1857.0	1855.3	1853.6	1841.8	1845.2	1838.5	1828.4
10°	1934.3	1932.7	1941.1	1924.3	1914.2	1925.9	1929.3	1910.8	1897.3	1892.3	1860.3
12.5°	2058.8	2038.6	2026.9	2010.0	2015.1	1998.3	2028.5	1996.6	1989.9	1959.6	1927.6
15°	2159.7	2156.4	2158.1	2131.1	2100.9	2107.6	2107.6	2090.8	2080.7	2043.7	1998.3
17.5°	2366.6	2296.0	2311.1	2277.5	2252.3	2250.6	2235.4	2238.8	2211.9	2134.5	2065.5
20°	2528.1	2497.8	2474.3	2417.1	2378.4	2390.2	2383.5	2366.6	2358.2	2257.3	2159.7
22.5°	2672.8	2682.9	2644.2	2629.0	2575.2	2580.3	2593.7	2578.6	2514.7	2410.4	2265.7
25°	2876.3	2864.5	2812.4	2793.9	2743.4	2761.9	2814.1	2802.3	2761.9	2573.5	2348.1
27.5°	3116.8	3076.5	3086.5	3002.4	2953.7	3005.8	3068.0	3126.9	3012.5	2765.3	2445.7
30°	3286.7	3244.7	3241.3	3237.9	3226.2	3286.7	3359.0	3412.9	3320.4	2957.0	2607.2
32.5°	3370.8	3380.9	3409.5	3399.4	3502.0	3626.5	3702.2	3779.5	3663.5	3269.9	2820.8
35°	3594.5	3530.6	3594.5	3601.3	3707.2	3971.3	4067.2	4252.2	4223.6	3712.3	3081.5
37.5°	3725.7	3720.7	3729.1	3793.0	3895.6	4221.9	4358.2	4501.1	4447.3	3978.0	3406.1
40°	3942.7	3956.2	3954.5	4003.3	4116.0	4410.3	4465.8	4581.9	4586.9	4346.4	3883.8
42.5°	4290.9	4237.1	4201.7	4252.2	4410.3	4573.5	4684.5	4660.9	4827.5	4793.8	4497.8
45°	4603.7	4635.7	4583.6	4667.7	4724.9	4812.3	4809.0	4859.4	5071.4	5231.2	4960.3
47.5°	4896.4	4916.6	4941.8	4999.0	5123.5	5137.0	5108.4	5086.5	5379.2	5544.0	5318.6
50°	5071.4	5089.9	5207.6	5310.2	5542.3	5572.6	5589.4	5533.9	5732.4	5750.9	5656.7
52.5°	5024.3	5044.4	5209.3	5547.4	5917.4	6195.0	6144.5	6050.3	6038.5	6110.9	5969.6
55°	4607.1	4588.6	4815.7	5342.2	6035.2	6701.3	6708.0	6608.7	6418.7	6369.9	5922.5
56°	4252.2	4179.9	4469.2	5105.0	5883.8	6657.5	6733.2	6627.2	6448.9	6230.3	5631.5
57.5°	3483.5	3552.5	3840.1	4366.6	5360.7	6343.0	6386.7	6361.5	6226.9	5860.2	4955.3
60°	1920.9	2042.0	2296.0	2940.2	3816.6	4867.8	4903.2	5108.4	5133.6	4487.7	3409.5
62.5°	815.8	802.3	1066.4	1540.8	2173.2	2938.5	3004.1	3214.4	3253.1	2587.0	1710.6
65°	331.4	349.9	482.7	775.4	1148.8	1338.9	1431.4	1500.4	1628.2	1068.1	630.8
67.5°	218.7	217.0	284.3	442.4	619.0	597.1	597.1	630.8	583.7	435.6	272.5
70°	156.4	161.5	203.5	306.1	385.2	285.9	274.2	262.4	297.7	287.6	220.3
72.5°	102.6	109.3	136.2	183.3	200.2	156.4	156.4	188.4	245.6	232.1	180.0
75°	67.3	69.0	84.1	106.0	99.2	80.7	89.1	126.2	178.3	171.6	127.8
77.5°	45.4	47.1	57.2	69.0	55.5	45.4	48.8	63.9	87.5	87.5	67.3
80°	16.8	18.5	23.5	21.9	25.2	32.0	35.3	43.7	52.1	52.1	45.4
82.5°	0.0	1.7	5.0	11.8	18.5	25.2	28.6	33.6	38.7	43.7	42.1
85°	0.0	1.7	5.0	8.4	13.5	15.1	16.8	11.8	10.1	10.1	8.4
87.5°	0.0	0.0	1.7	1.7	1.7	1.7	1.7	1.7	3.4	1.7	1.7
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°	1764.5	1764.5	1764.5	1764.5	1764.5	1764.5	1764.5	1764.5	1764.5	1764.5	1764.5
2.5°	1764.5	1762.8	1762.8	1757.7	1767.8	1762.8	1766.1	1764.5	1742.6	1759.4	1747.6
5°	1783.0	1794.7	1776.2	1772.9	1759.4	1764.5	1764.5	1747.6	1762.8	1761.1	1757.7
7.5°	1830.1	1809.9	1789.7	1769.5	1766.1	1761.1	1742.6	1735.9	1747.6	1734.2	1754.4
10°	1850.2	1853.6	1823.3	1796.4	1771.2	1735.9	1710.6	1695.5	1677.0	1697.2	1709.0
12.5°	1942.8	1909.1	1857.0	1814.9	1729.1	1693.8	1668.6	1661.9	1693.8	1700.5	1688.8
15°	1974.7	1969.7	1902.4	1808.2	1719.0	1677.0	1682.0	1668.6	1671.9	1655.1	1658.5
17.5°	2040.3	1983.1	1904.1	1786.3	1717.4	1707.3	1677.0	1623.2	1592.9	1579.4	1591.2
20°	2112.6	2057.1	1942.8	1794.7	1732.5	1705.6	1606.4	1540.8	1478.5	1444.9	1446.6
22.5°	2176.6	2107.6	1925.9	1798.1	1746.0	1634.9	1515.5	1386.0	1308.6	1256.5	1258.2
25°	2253.9	2156.4	1932.7	1804.8	1710.6	1522.2	1350.7	1224.5	1132.0	1096.7	1108.5
27.5°	2297.7	2186.7	1969.7	1820.0	1618.1	1362.5	1177.4	1059.7	1005.9	989.0	987.4
30°	2428.9	2253.9	2015.1	1789.7	1463.4	1190.9	1019.3	947.0	894.8	879.7	883.1
32.5°	2624.0	2376.7	2074.0	1710.6	1305.3	1037.8	916.7	862.9	814.1	785.5	782.1
35°	2787.1	2587.0	2136.2	1587.8	1121.9	920.1	844.4	777.1	703.1	671.1	662.7
37.5°	3098.3	2824.1	2122.7	1402.8	947.0	832.6	767.0	684.6	620.7	576.9	571.9
40°	3512.1	3101.7	2057.1	1177.4	817.5	755.2	684.6	605.5	526.5	489.5	486.1
42.5°	4015.0	3441.5	1937.7	948.7	688.0	677.9	613.9	523.1	452.5	425.6	427.2
45°	4423.8	3732.5	1816.6	762.0	592.1	602.2	546.7	460.9	412.1	390.2	390.2
47.5°	4787.1	3929.2	1685.4	629.1	502.9	526.5	477.7	427.2	385.2	368.4	365.0
50°	5137.0	4129.4	1554.2	509.7	428.9	452.5	447.4	407.1	373.4	353.2	354.9
52.5°	5355.6	4161.4	1387.7	417.1	375.1	402.0	418.8	381.8	344.8	333.0	329.7
55°	5088.2	3749.3	1076.5	343.1	317.9	353.2	385.2	343.1	314.5	294.4	292.7
56°	4728.2	3352.3	899.9	316.2	301.1	339.8	373.4	328.0	296.0	284.3	275.9
57.5°	4003.3	2743.4	664.4	280.9	279.2	316.2	354.9	312.9	275.9	265.8	265.8
60°	2496.2	1544.1	402.0	235.5	242.2	280.9	319.6	279.2	245.6	245.6	250.6
62.5°	1137.1	642.5	243.9	200.2	208.6	242.2	284.3	252.3	233.8	252.3	255.7
65°	386.9	277.5	176.6	159.8	164.8	200.2	243.9	255.7	254.0	265.8	272.5
67.5°	217.0	178.3	148.0	132.9	129.5	148.0	200.2	255.7	245.6	240.5	243.9
70°	183.3	151.4	131.2	117.7	112.7	119.4	154.7	193.4	173.3	168.2	164.8
72.5°	148.0	126.2	114.4	106.0	90.8	77.4	70.6	74.0	82.4	87.5	95.9
75°	104.3	95.9	95.9	85.8	65.6	48.8	38.7	32.0	21.9	15.1	16.8
77.5°	58.9	58.9	60.6	52.1	42.1	32.0	23.5	16.8	8.4	3.4	1.7
80°	40.4	43.7	47.1	42.1	35.3	28.6	20.2	11.8	5.0	0.0	0.0
82.5°	40.4	45.4	48.8	42.1	35.3	26.9	20.2	11.8	5.0	1.7	0.0
85°	8.4	10.1	11.8	13.5	20.2	20.2	15.1	10.1	5.0	1.7	0.0
87.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	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)