

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: P953085

Luminaire Tested: **GALN-SB6D-730-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953085
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB6D-730-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52614 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 440.1
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

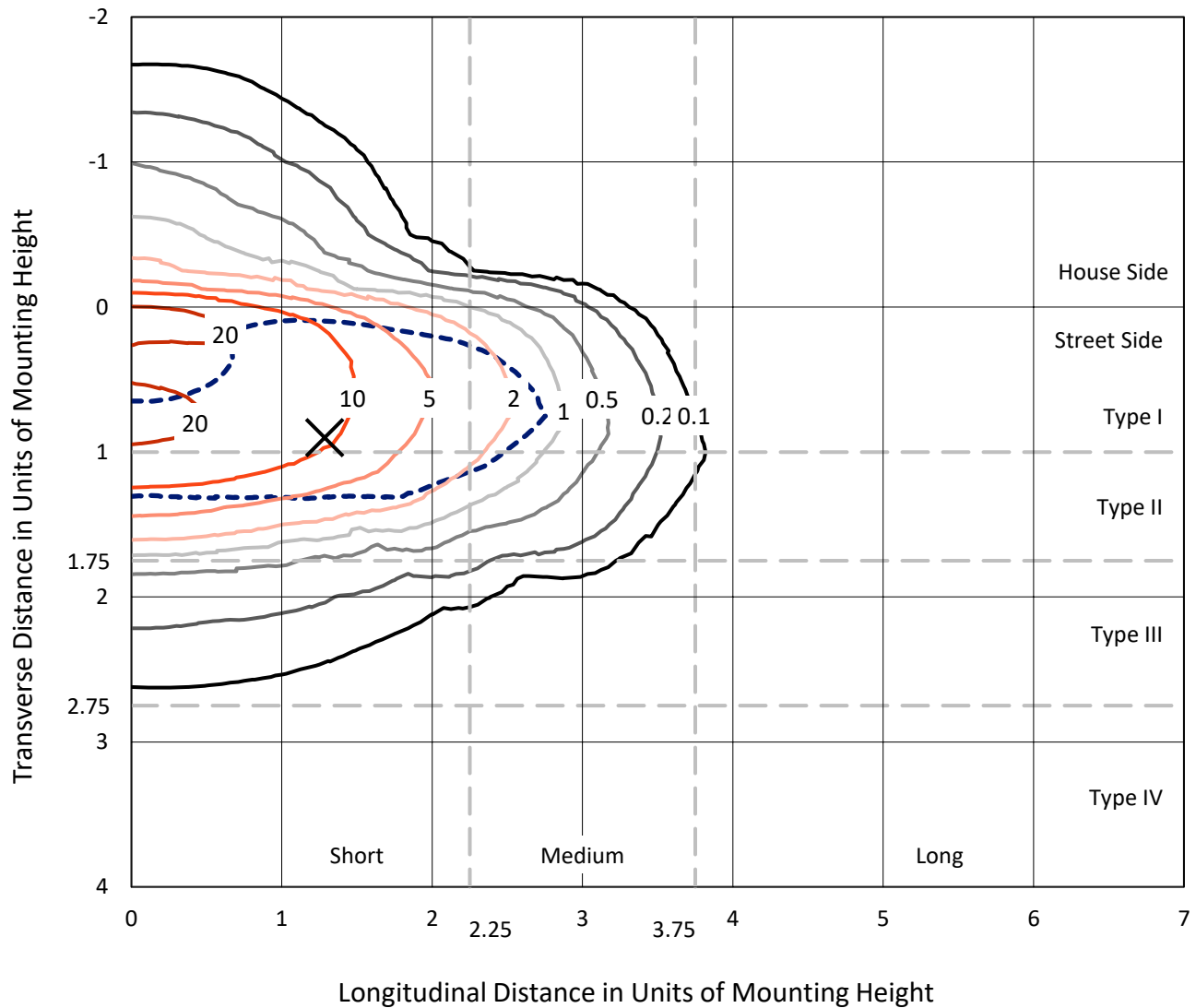


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Iso-Footcandle Lines of Horizontal Illumination

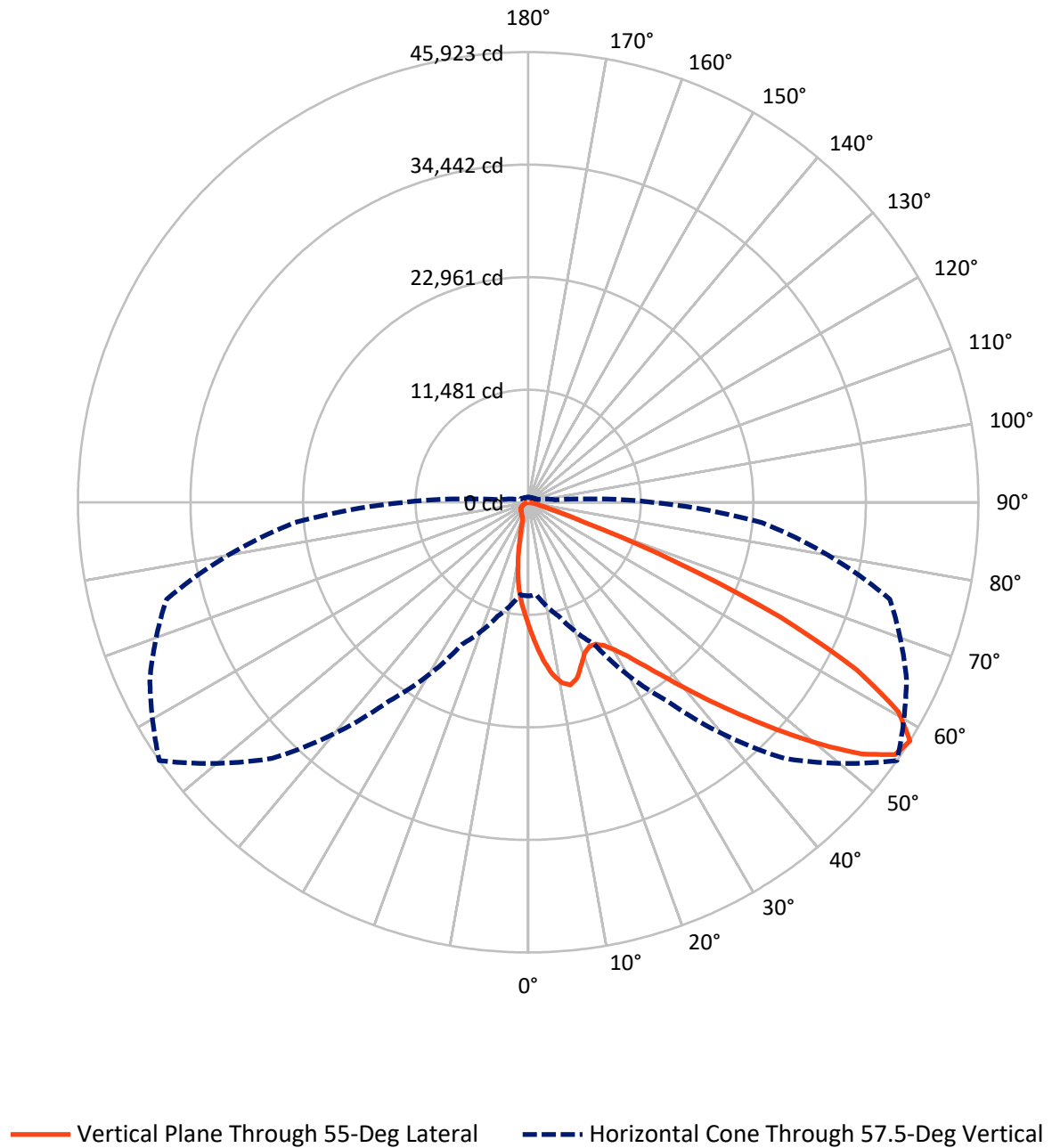
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 29 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4108.9	0.0	4108.9
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	48505.1	0.0	48505.1
	% Fixture	92.2	0.0	92.2
Total	Lumens	52614.0	0.0	52614.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1179.7	2.2
10°-20°	2849.5	5.4
20°-30°	4559.2	8.7
30°-40°	7716.7	14.7
40°-50°	12669.2	24.1
50°-60°	13924.4	26.5
60°-70°	7987.0	15.2
70°-80°	1632.0	3.1
80°-90°	96.3	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°	52614.0	100.0
0°-180°	52614.0	100.0

Coefficient of Utilization



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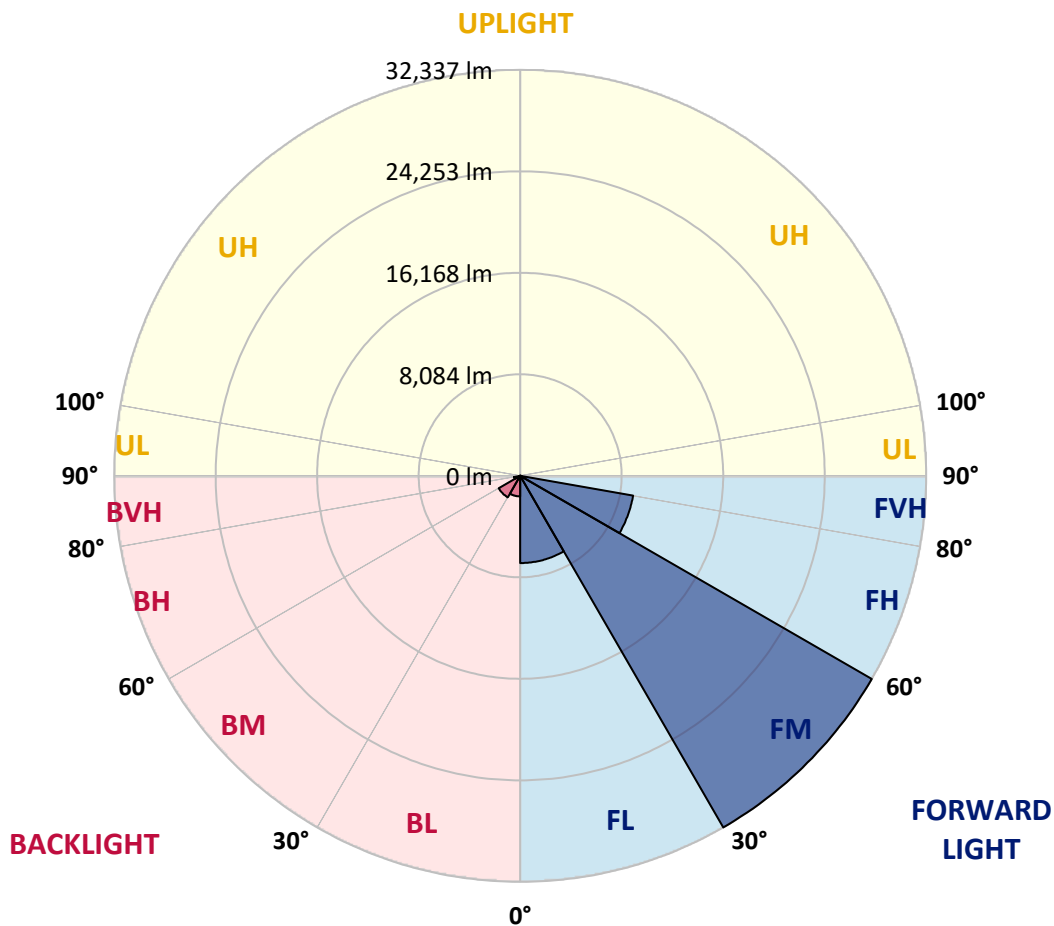
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6948.0	13.2			
FM	(30°-60°)	32336.9	61.5			
FH	(60°-80°)	9130.3	17.4			G4/12000
FVH	(80°-90°)	89.8	0.2			G1/100
BL	(0°-30°)	1640.4	3.1	B3/2500		
BM	(30°-60°)	1973.4	3.8	B2/2500		
BH	(60°-80°)	488.7	0.9	B1/500		G1/500
BVH	(80°-90°)	6.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	12678.7	12678.7	12678.7	12678.7	12678.7	12678.7	12678.7	12678.7	12678.7	12678.7	12678.7
2.5°	15731.6	15533.7	15504.5	15465.5	15089.2	14806.9	14398.1	13950.4	13447.6	12935.0	12707.9
5°	18174.5	18018.8	17989.6	17807.9	17379.7	16899.5	16172.8	15254.6	14317.0	13214.0	12740.3
7.5°	18648.2	18619.0	18752.0	18745.5	18687.1	18307.5	17694.3	16601.0	15193.0	13557.9	12824.7
10°	16536.1	16610.8	17006.6	17353.7	18291.3	18836.3	18703.3	17801.4	16094.9	13950.4	12918.8
12.5°	14612.3	14524.7	14806.9	15199.5	16289.6	17911.7	19121.8	18803.9	17126.6	14394.9	13058.3
15°	13405.4	13369.7	13528.7	13710.4	14540.9	16176.0	18635.2	19618.2	18119.3	14920.5	13269.1
17.5°	13019.3	12990.1	13038.8	13084.2	13622.8	14888.0	17477.0	20117.8	19069.9	15520.7	13502.7
20°	13334.0	13295.1	13288.6	13252.9	13476.8	14339.8	16429.1	20153.5	19923.2	16065.7	13703.9
22.5°	14252.2	14206.7	14047.8	13905.0	13924.5	14414.4	15961.9	19796.6	20565.5	16575.1	13830.4
25°	15916.5	15841.9	15510.9	15030.8	14725.8	14933.5	16033.3	19326.2	21178.7	16974.1	13768.8
27.5°	17999.3	17902.0	17477.0	16763.2	16065.7	15812.7	16549.1	19001.8	21688.1	17279.1	13635.7
30°	20040.0	19913.4	19494.9	18940.2	17921.4	17123.4	17480.2	19144.5	22294.7	17597.0	13460.6
32.5°	22242.8	22122.8	21568.0	20880.2	20036.7	18962.9	18755.2	19842.1	23037.7	18041.5	13337.3
35°	25029.7	24841.5	24053.2	23115.6	22220.1	21133.3	20481.2	21045.7	24027.2	18719.5	13405.4
37.5°	28202.6	27949.5	27099.5	25805.1	24637.1	23420.5	22583.5	22700.3	25477.4	19627.9	13616.3
40°	31193.8	30963.5	30178.4	28958.5	27492.1	26015.9	25123.8	24864.2	27479.1	20734.2	13986.1
42.5°	32987.9	32780.3	32449.4	31933.5	30697.5	29192.1	28066.3	27505.1	29847.4	22057.9	14437.1
45°	33088.5	32906.8	33351.3	33951.5	33708.2	32705.7	31333.3	30304.9	32225.5	23300.5	14904.3
47.5°	31479.3	31356.0	32705.7	34801.5	35846.1	36267.9	35002.6	32871.1	34188.3	24192.7	15095.7
50°	27093.0	27047.6	29824.7	33672.5	36660.5	39388.9	38873.1	35258.9	35709.9	24653.3	14914.0
52.5°	23491.9	23326.4	24945.3	30058.3	35476.3	41030.5	42655.9	37601.3	36774.0	24740.9	14489.0
55°	17817.6	17671.6	19702.6	24011.0	31657.8	40446.5	45423.3	40018.3	37536.4	24517.1	13726.6
57.5°	9557.7	9466.8	12033.1	15981.4	24747.4	36942.7	45922.9	42574.8	38178.8	23923.4	12659.2
60°	3721.2	3705.0	4665.3	7753.8	15040.5	30055.1	43402.1	44109.3	38581.1	23193.4	11767.0
62.5°	2251.5	2300.2	2455.9	3481.1	6644.3	18670.9	37591.6	42363.9	38850.3	22525.1	11030.6
65°	1862.2	1865.5	1884.9	2391.0	3182.6	7812.2	28299.9	36621.5	38185.3	21334.4	9985.9
67.5°	1596.2	1625.4	1700.0	1897.9	2245.0	3426.0	16292.8	28368.1	34139.6	18563.8	8357.3
70°	1258.8	1297.7	1391.8	1560.5	1732.4	2144.5	6021.4	18875.3	26080.8	13992.6	6319.9
72.5°	1060.9	1057.6	1106.3	1268.5	1375.6	1508.6	2316.4	10576.4	15157.3	6680.0	3127.5
75°	820.8	853.2	914.9	1060.9	1125.8	1093.3	1255.5	3863.9	5430.9	2024.4	1064.1
77.5°	642.4	668.3	723.5	866.2	931.1	775.4	723.5	1382.1	1745.4	726.7	480.2
80°	288.7	311.5	493.1	639.1	759.2	535.3	392.6	707.3	775.4	330.9	243.3
82.5°	51.9	87.6	288.7	337.4	389.3	347.1	204.4	366.6	379.6	133.0	84.4
85°	3.2	6.5	100.6	123.3	155.7	113.6	61.6	146.0	126.5	45.4	32.4
87.5°	0.0	0.0	0.0	3.2	3.2	16.2	19.5	26.0	19.5	16.2	13.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12678.7	12678.7	12678.7	12678.7	12678.7	12678.7	12678.7	12678.7	12678.7	12678.7
2.5°	12474.3	12013.6	11565.9	11199.3	10985.2	10621.8	10381.7	10342.8	10242.2	10329.8
5°	12234.2	11410.2	10576.4	9830.2	9217.0	8425.4	7835.0	7585.1	7367.8	7442.4
7.5°	12120.7	10819.7	9522.0	8247.0	6936.3	5671.0	4730.2	4337.6	4039.1	4081.3
10°	11968.2	10206.5	8172.4	6225.8	4470.6	3221.6	2572.7	2332.6	2199.6	2202.9
12.5°	11851.4	9473.3	6605.4	4220.8	2722.0	2056.9	1855.7	1797.3	1758.4	1761.6
15°	11793.0	8610.3	5057.8	2812.8	1946.6	1742.2	1693.5	1667.6	1641.6	1638.4
17.5°	11695.7	7650.0	3701.7	2053.6	1703.3	1631.9	1589.7	1560.5	1528.1	1521.6
20°	11549.7	6560.0	2705.7	1735.7	1596.2	1541.0	1482.6	1443.7	1404.8	1398.3
22.5°	11280.4	5408.2	2079.6	1605.9	1518.3	1456.7	1385.3	1339.9	1301.0	1294.5
25°	10780.8	4327.9	1751.9	1524.8	1450.2	1375.6	1297.7	1236.1	1200.4	1193.9
27.5°	10148.1	3400.0	1589.7	1450.2	1362.6	1294.5	1206.9	1148.5	1116.0	1109.5
30°	9401.9	2618.1	1495.6	1365.8	1258.8	1200.4	1122.5	1073.9	1054.4	1054.4
32.5°	8597.4	2092.6	1456.7	1281.5	1167.9	1103.1	1041.4	1022.0	1015.5	1012.2
35°	7841.4	1816.8	1437.2	1213.4	1086.8	1025.2	999.2	1002.5	1015.5	1015.5
37.5°	7169.9	1729.2	1427.5	1164.7	1015.5	960.3	976.5	1005.7	992.8	992.8
40°	6563.2	1738.9	1421.0	1129.0	957.1	924.6	957.1	934.4	901.9	898.7
42.5°	6099.3	1820.0	1408.0	1099.8	921.4	898.7	885.7	850.0	846.8	853.2
45°	5761.9	1891.4	1404.8	1086.8	882.4	840.3	824.0	788.4	853.2	869.5
47.5°	5362.8	1891.4	1404.8	1041.4	817.6	801.3	775.4	736.5	801.3	817.6
50°	4847.0	1771.4	1349.6	989.5	765.7	755.9	710.5	661.8	648.9	658.6
52.5°	4194.9	1554.0	1210.1	918.1	713.7	694.3	639.1	603.4	593.7	593.7
55°	3451.9	1301.0	1022.0	814.3	658.6	622.9	584.0	567.8	558.0	551.5
57.5°	2806.3	1067.4	820.8	723.5	606.7	561.3	548.3	528.8	512.6	502.9
60°	2303.4	840.3	678.1	642.4	554.8	512.6	509.4	483.4	441.2	434.7
62.5°	1777.9	616.4	571.0	558.0	502.9	467.2	460.7	408.8	343.9	330.9
65°	1255.5	480.2	460.7	489.9	447.7	415.3	399.0	321.2	253.1	243.3
67.5°	882.4	402.3	363.4	428.2	389.3	347.1	337.4	272.5	210.9	204.4
70°	629.4	327.7	298.5	366.6	311.5	305.0	285.5	227.1	171.9	165.5
72.5°	444.5	249.8	230.3	317.9	214.1	262.8	233.6	175.2	129.8	123.3
75°	327.7	178.4	162.2	184.9	155.7	197.9	165.5	116.8	81.1	77.9
77.5°	240.1	113.6	97.3	90.8	90.8	123.3	90.8	48.7	35.7	32.4
80°	168.7	51.9	45.4	38.9	35.7	29.2	13.0	6.5	3.2	3.2
82.5°	100.6	22.7	22.7	16.2	9.7	0.0	0.0	0.0	0.0	0.0
85°	22.7	9.7	9.7	3.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.2	3.2	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

(END OF REPORT)