

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: P953043

Luminaire Tested: **GALN-SB6D-722-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953043
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-722-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2200K, 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: 43463 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

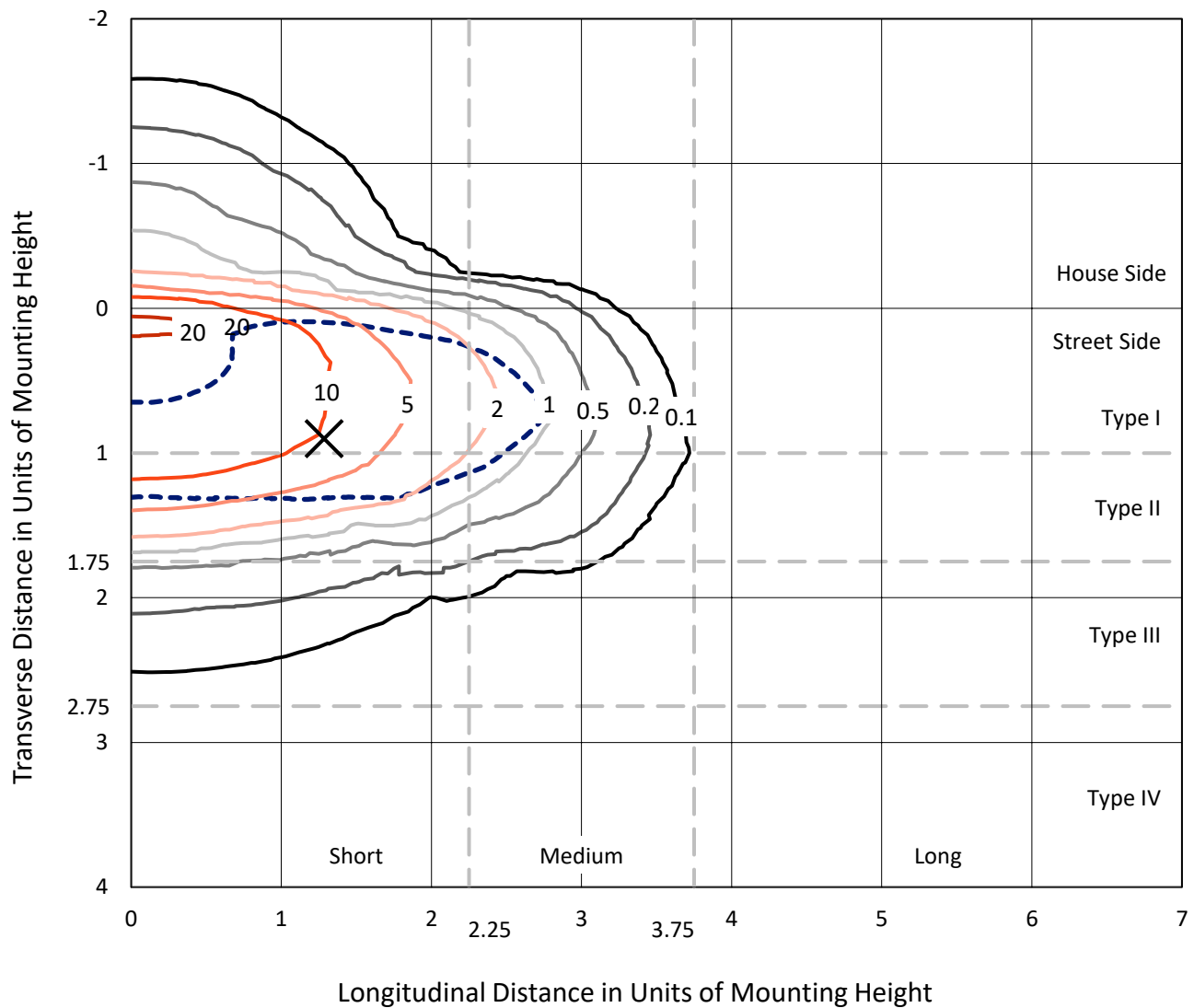
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

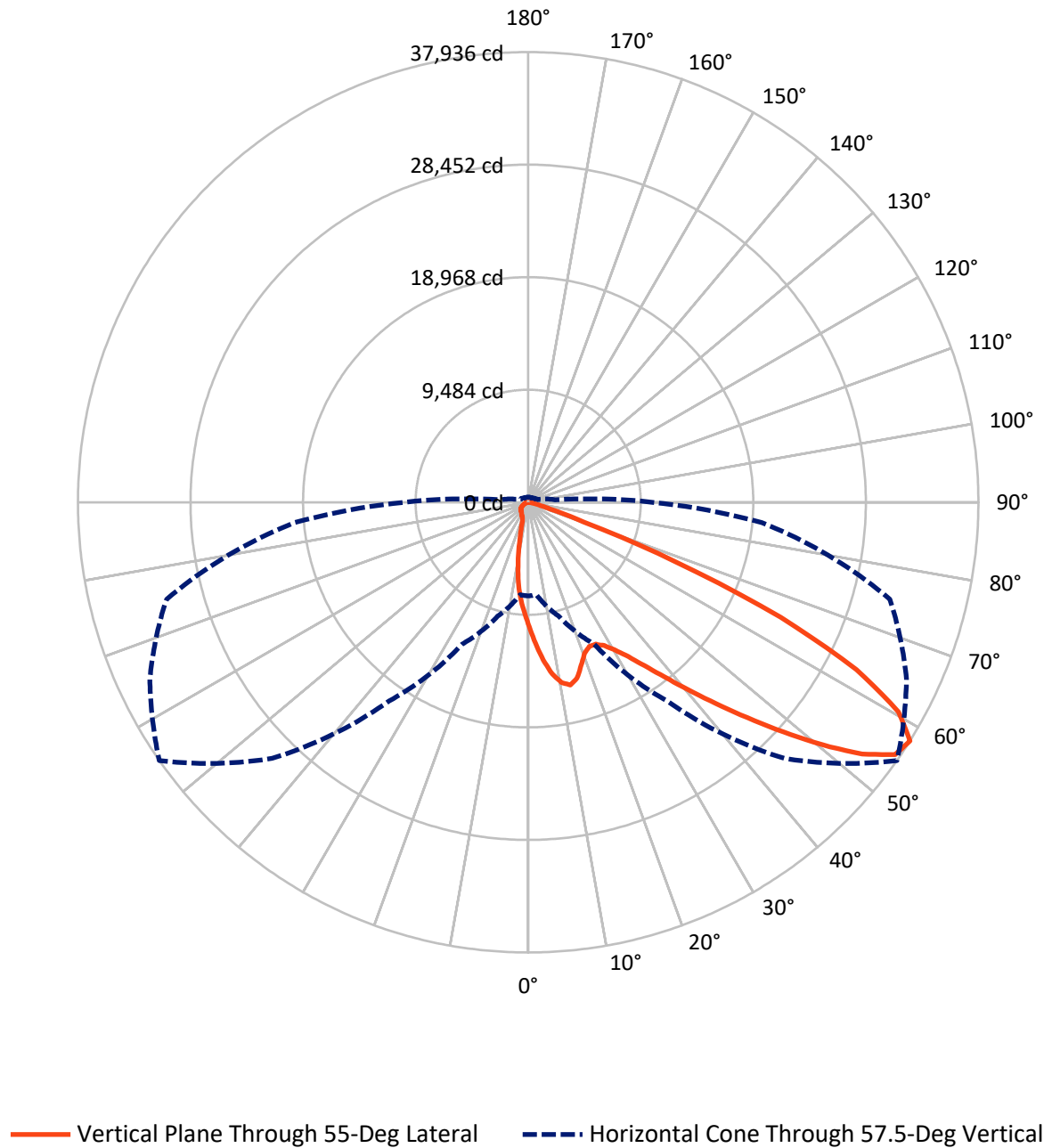
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24 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	3394.3	0.0	3394.3
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	40068.7	0.0	40068.7
	% Fixture	92.2	0.0	92.2
Total	Lumens	43463.0	0.0	43463.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	974.5	2.2
10°-20°	2353.9	5.4
20°-30°	3766.2	8.7
30°-40°	6374.6	14.7
40°-50°	10465.7	24.1
50°-60°	11502.5	26.5
60°-70°	6597.9	15.2
70°-80°	1348.1	3.1
80°-90°	79.5	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°	43463.0	100.0
0°-180°	43463.0	100.0

Coefficient of Utilization



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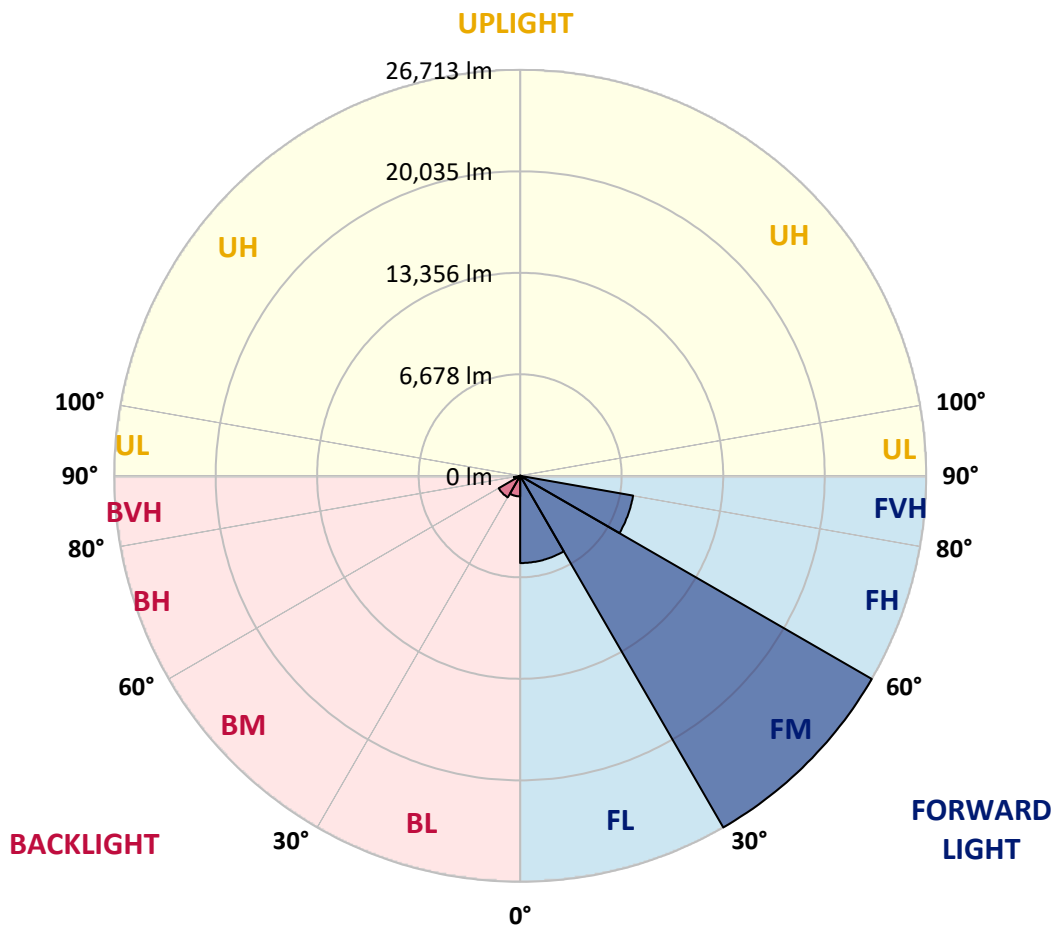
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5739.6	13.2			
FM	(30°-60°)	26712.7	61.5			
FH	(60°-80°)	7542.3	17.4			G4/12000
FVH	(80°-90°)	74.2	0.2			G1/100
BL	(0°-30°)	1355.1	3.1	B3/2500		
BM	(30°-60°)	1630.1	3.8	B2/2500		
BH	(60°-80°)	403.7	0.9	B1/500		G1/500
BVH	(80°-90°)	5.4	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°	10473.5	10473.5	10473.5	10473.5	10473.5	10473.5	10473.5	10473.5	10473.5	10473.5	10473.5
2.5°	12995.4	12831.9	12807.8	12775.6	12464.8	12231.6	11893.9	11524.1	11108.7	10685.2	10497.6
5°	15013.5	14884.8	14860.7	14710.6	14356.9	13960.2	13359.9	12601.4	11826.9	10915.7	10524.4
7.5°	15404.7	15380.6	15490.5	15485.1	15436.9	15123.3	14616.8	13713.7	12550.5	11199.8	10594.1
10°	13660.1	13721.7	14048.7	14335.4	15109.9	15560.2	15450.3	14705.3	13295.6	11524.1	10671.8
12.5°	12070.8	11998.4	12231.6	12555.9	13456.4	14796.4	15796.0	15533.4	14147.8	11891.2	10787.1
15°	11073.8	11044.4	11175.7	11325.8	12011.8	13362.6	15394.0	16206.1	14967.9	12325.4	10961.3
17.5°	10754.9	10730.8	10771.0	10808.5	11253.4	12298.6	14437.3	16618.8	15753.1	12821.2	11154.2
20°	11014.9	10982.7	10977.4	10947.9	11132.8	11845.7	13571.6	16648.3	16458.0	13271.5	11320.4
22.5°	11773.3	11735.8	11604.5	11486.6	11502.6	11907.3	13185.7	16353.5	16988.6	13692.2	11424.9
25°	13148.2	13086.5	12813.2	12416.5	12164.6	12336.1	13244.7	15964.9	17495.2	14021.9	11374.0
27.5°	14868.7	14788.3	14437.3	13847.7	13271.5	13062.4	13670.8	15696.9	17915.9	14273.8	11264.1
30°	16554.5	16450.0	16104.2	15645.9	14804.4	14145.1	14439.9	15814.8	18417.1	14536.4	11119.4
32.5°	18374.2	18275.0	17816.8	17248.6	16551.8	15664.7	15493.2	16391.0	19030.8	14903.6	11017.6
35°	20676.3	20520.9	19869.7	19095.1	18355.4	17457.6	16919.0	17385.3	19848.2	15463.7	11073.8
37.5°	23297.4	23088.4	22386.2	21316.9	20352.1	19347.1	18655.6	18752.1	21046.2	16214.1	11248.0
40°	25768.4	25578.1	24929.5	23921.8	22710.5	21491.1	20754.1	20539.7	22699.8	17128.0	11553.6
42.5°	27250.4	27078.9	26805.5	26379.4	25358.3	24114.8	23184.8	22721.2	24656.2	18221.4	11926.1
45°	27333.5	27183.4	27550.6	28046.4	27845.4	27017.3	25883.6	25034.1	26620.6	19247.9	12312.0
47.5°	26004.2	25902.4	27017.3	28748.6	29611.5	29959.9	28914.7	27153.9	28242.0	19984.9	12470.1
50°	22380.8	22343.3	24637.4	27815.9	30284.2	32538.1	32112.0	29126.4	29499.0	20365.5	12320.0
52.5°	19406.0	19269.3	20606.7	24830.4	29306.0	33894.2	35236.9	31061.4	30378.0	20437.8	11969.0
55°	14718.7	14598.1	16275.8	19834.8	26151.6	33411.8	37522.9	33058.0	31007.8	20252.9	11339.2
57.5°	7895.3	7820.3	9940.2	13201.8	20443.2	30517.4	37935.7	35169.9	31538.5	19762.5	10457.4
60°	3074.0	3060.6	3853.9	6405.2	12424.6	24827.7	35853.3	36437.5	31870.8	19159.5	9720.4
62.5°	1859.9	1900.1	2028.8	2875.7	5488.7	15423.5	31053.4	34995.7	32093.2	18607.4	9112.1
65°	1538.3	1541.0	1557.1	1975.2	2629.1	6453.5	23377.8	30252.0	31543.8	17623.8	8249.1
67.5°	1318.6	1342.7	1404.3	1567.8	1854.6	2830.1	13459.1	23434.1	28201.8	15335.1	6903.7
70°	1039.8	1072.0	1149.7	1289.1	1431.1	1771.5	4974.1	15592.3	21544.7	11558.9	5220.7
72.5°	876.4	873.7	913.9	1047.9	1136.3	1246.2	1913.5	8736.9	12521.0	5518.2	2583.5
75°	678.0	704.8	755.8	876.4	930.0	903.2	1037.2	3191.9	4486.4	1672.3	879.0
77.5°	530.6	552.1	597.6	715.6	769.2	640.5	597.6	1141.7	1441.8	600.3	396.6
80°	238.5	257.3	407.4	528.0	627.1	442.2	324.3	584.2	640.5	273.4	201.0
82.5°	42.9	72.4	238.5	278.7	321.6	286.8	168.8	302.8	313.6	109.9	69.7
85°	2.7	5.4	83.1	101.8	128.6	93.8	50.9	120.6	104.5	37.5	26.8
87.5°	0.0	0.0	0.0	2.7	2.7	13.4	16.1	21.4	16.1	13.4	10.7
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10473.5	10473.5	10473.5	10473.5	10473.5	10473.5	10473.5	10473.5	10473.5	10473.5
2.5°	10304.7	9924.1	9554.3	9251.4	9074.5	8774.4	8576.1	8543.9	8460.8	8533.2
5°	10106.3	9425.6	8736.9	8120.5	7613.9	6960.0	6472.2	6265.9	6086.3	6148.0
7.5°	10012.5	8937.9	7865.9	6812.6	5729.9	4684.7	3907.5	3583.2	3336.6	3371.5
10°	9886.6	8431.3	6751.0	5143.0	3693.1	2661.3	2125.3	1926.9	1817.1	1819.7
12.5°	9790.1	7825.7	5456.5	3486.7	2248.5	1699.1	1533.0	1484.7	1452.6	1455.2
15°	9741.9	7112.8	4178.1	2323.6	1608.0	1439.2	1399.0	1377.5	1356.1	1353.4
17.5°	9661.5	6319.5	3057.9	1696.5	1407.0	1348.0	1313.2	1289.1	1262.3	1256.9
20°	9540.9	5419.0	2235.1	1433.8	1318.6	1273.0	1224.8	1192.6	1160.4	1155.1
22.5°	9318.4	4467.6	1717.9	1326.6	1254.2	1203.3	1144.4	1106.8	1074.7	1069.3
25°	8905.7	3575.1	1447.2	1259.6	1198.0	1136.3	1072.0	1021.1	991.6	986.2
27.5°	8383.1	2808.7	1313.2	1198.0	1125.6	1069.3	997.0	948.7	921.9	916.6
30°	7766.7	2162.8	1235.5	1128.3	1039.8	991.6	927.3	887.1	871.0	871.0
32.5°	7102.0	1728.6	1203.3	1058.6	964.8	911.2	860.3	844.2	838.8	836.2
35°	6477.6	1500.8	1187.2	1002.3	897.8	846.9	825.4	828.1	838.8	838.8
37.5°	5922.8	1428.4	1179.2	962.1	838.8	793.3	806.7	830.8	820.1	820.1
40°	5421.7	1436.5	1173.8	932.6	790.6	763.8	790.6	771.8	745.0	742.4
42.5°	5038.4	1503.5	1163.1	908.5	761.1	742.4	731.6	702.2	699.5	704.8
45°	4759.7	1562.5	1160.4	897.8	729.0	694.1	680.7	651.2	704.8	718.2
47.5°	4430.1	1562.5	1160.4	860.3	675.4	662.0	640.5	608.4	662.0	675.4
50°	4003.9	1463.3	1114.9	817.4	632.5	624.4	586.9	546.7	536.0	544.0
52.5°	3465.3	1283.7	999.6	758.4	589.6	573.5	528.0	498.5	490.4	490.4
55°	2851.5	1074.7	844.2	672.7	544.0	514.6	482.4	469.0	461.0	455.6
57.5°	2318.2	881.7	678.0	597.6	501.2	463.6	452.9	436.8	423.4	415.4
60°	1902.8	694.1	560.1	530.6	458.3	423.4	420.8	399.3	364.5	359.1
62.5°	1468.7	509.2	471.7	461.0	415.4	385.9	380.6	337.7	284.1	273.4
65°	1037.2	396.6	380.6	404.7	369.8	343.0	329.6	265.3	209.0	201.0
67.5°	729.0	332.3	300.2	353.8	321.6	286.8	278.7	225.1	174.2	168.8
70°	519.9	270.7	246.6	302.8	257.3	251.9	235.8	187.6	142.0	136.7
72.5°	367.2	206.4	190.3	262.6	176.9	217.1	193.0	144.7	107.2	101.8
75°	270.7	147.4	134.0	152.8	128.6	163.5	136.7	96.5	67.0	64.3
77.5°	198.3	93.8	80.4	75.0	75.0	101.8	75.0	40.2	29.5	26.8
80°	139.4	42.9	37.5	32.2	29.5	24.1	10.7	5.4	2.7	2.7
82.5°	83.1	18.8	18.8	13.4	8.0	0.0	0.0	0.0	0.0	0.0
85°	18.8	8.0	8.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.7	2.7	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)