

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: P956991

Luminaire Tested: **GALN-SB9C-727-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956991
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-SB9C-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2700K, 615mA 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: 53946 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 449.8
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

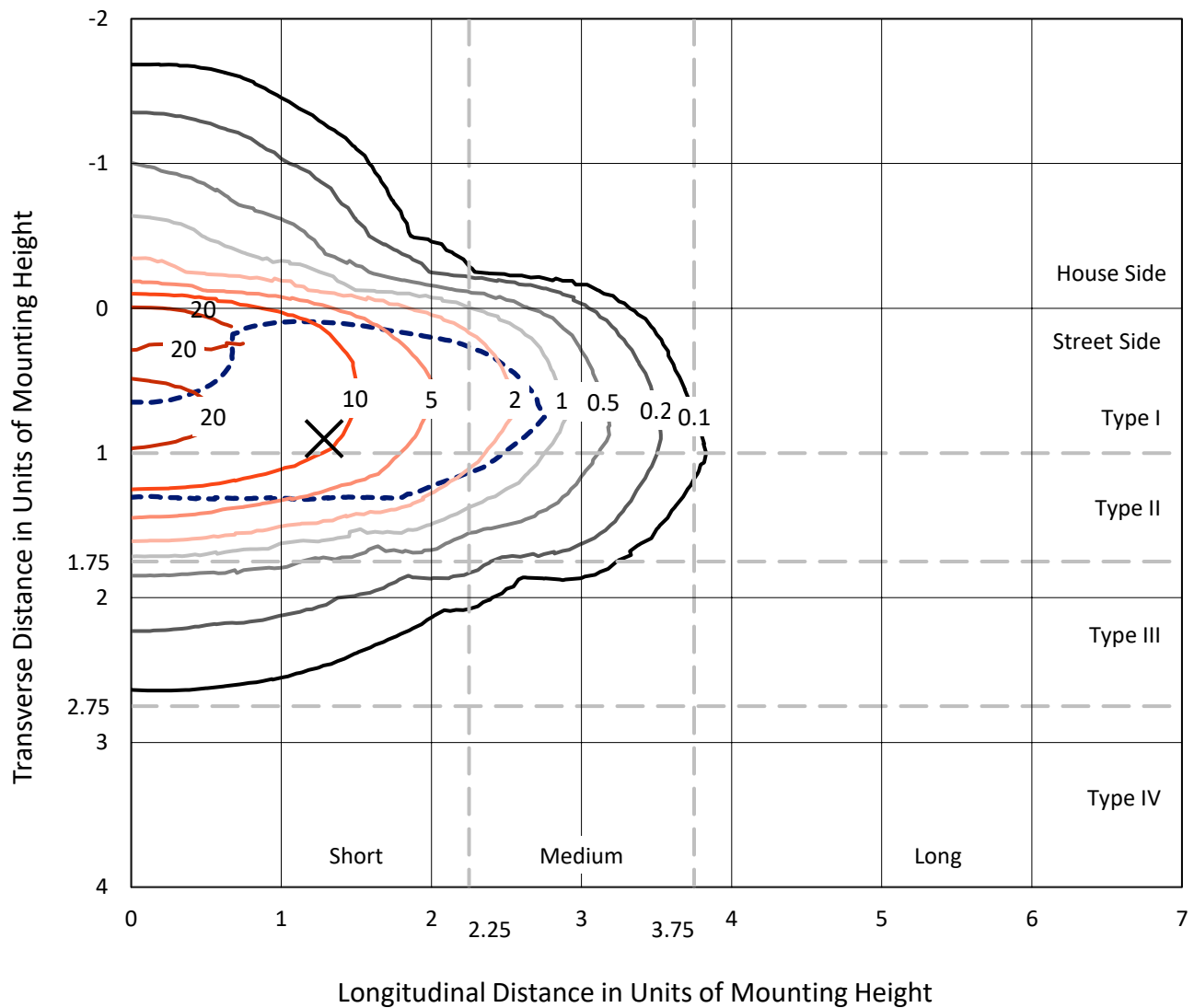


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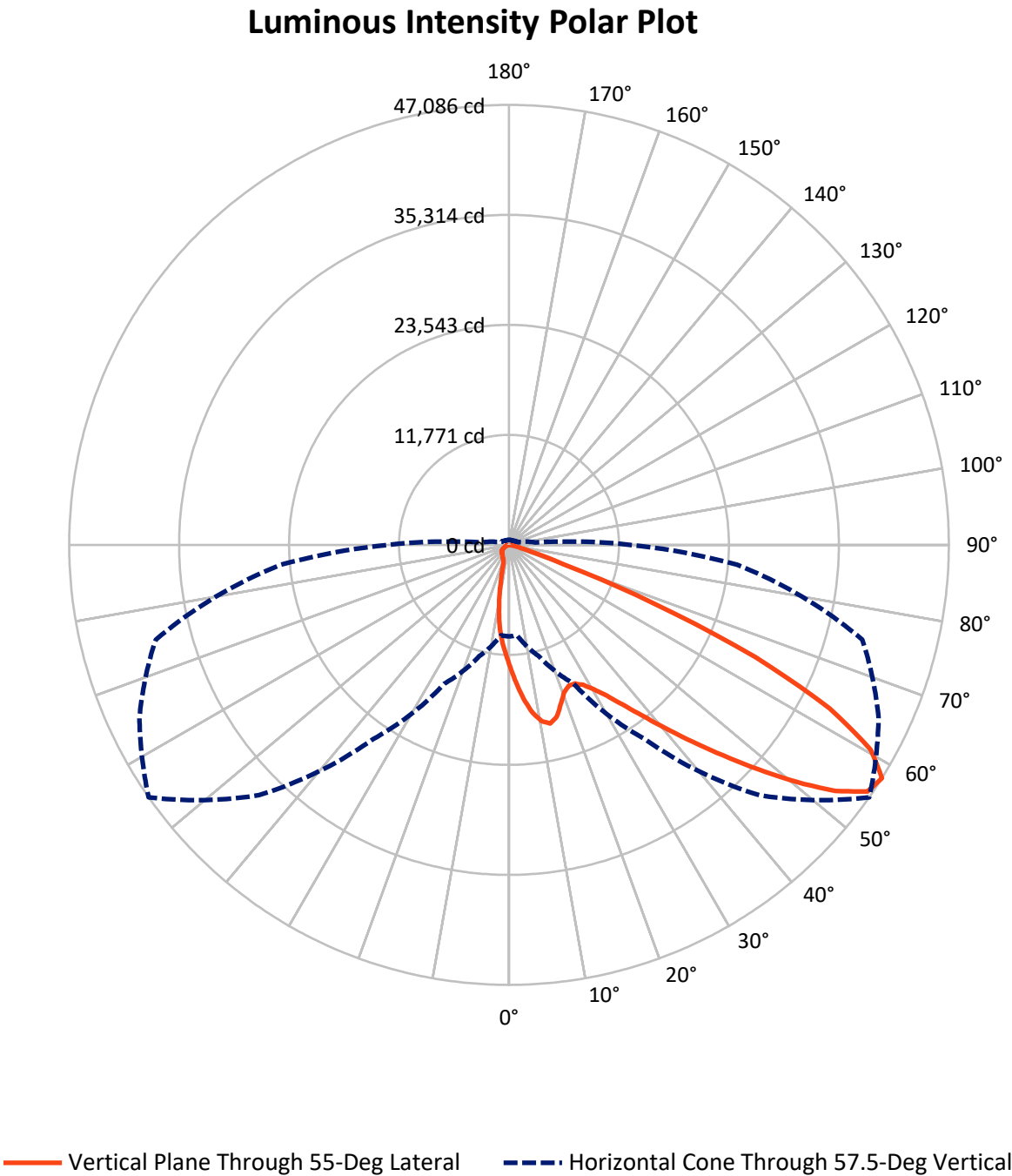
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 29.8 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4213.0	0.0	4213.0
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	49733.0	0.0	49733.0
	% Fixture	92.2	0.0	92.2
Total	Lumens	53946.0	0.0	53946.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1209.5	2.2
10°-20°	2921.7	5.4
20°-30°	4674.6	8.7
30°-40°	7912.1	14.7
40°-50°	12990.0	24.1
50°-60°	14276.9	26.5
60°-70°	8189.2	15.2
70°-80°	1673.3	3.1
80°-90°	98.7	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°	53946.0	100.0
0°-180°	53946.0	100.0

Coefficient of Utilization



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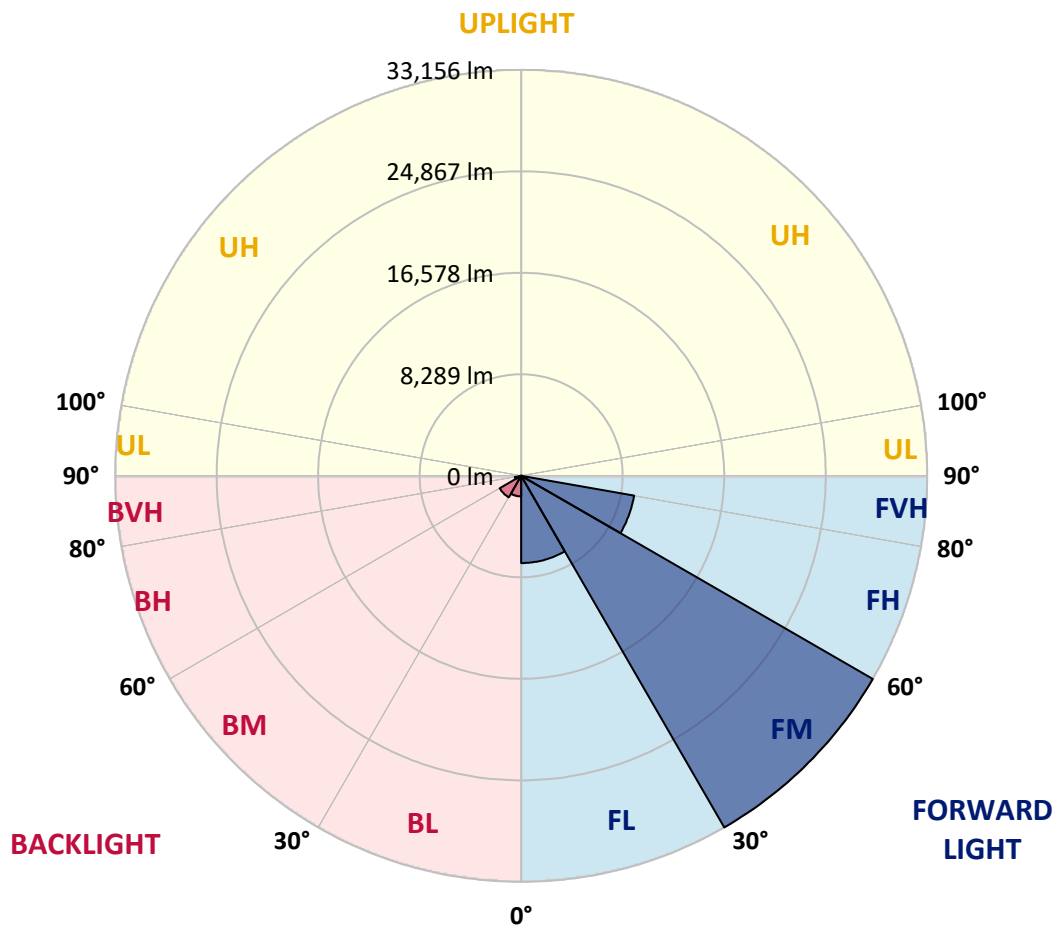
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7123.9	13.2			
FM	(30°-60°)	33155.6	61.5			
FH	(60°-80°)	9361.5	17.4			G4/12000
FVH	(80°-90°)	92.1	0.2			G1/100
BL	(0°-30°)	1681.9	3.1	B3/2500		
BM	(30°-60°)	2023.3	3.8	B2/2500		
BH	(60°-80°)	501.0	0.9	B2/1000		G2/1000
BVH	(80°-90°)	6.7	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°	12999.7	12999.7	12999.7	12999.7	12999.7	12999.7	12999.7	12999.7	12999.7	12999.7	12999.7
2.5°	16129.8	15926.9	15897.0	15857.1	15471.2	15181.8	14762.7	14303.6	13788.0	13262.4	13029.6
5°	18634.6	18474.9	18445.0	18258.7	17819.6	17327.3	16582.2	15640.8	14679.5	13548.5	13062.9
7.5°	19120.3	19090.3	19226.7	19220.1	19160.2	18771.0	18142.3	17021.3	15577.6	13901.1	13149.3
10°	16954.8	17031.3	17437.1	17793.0	18754.4	19313.2	19176.8	18252.1	16502.4	14303.6	13245.8
12.5°	14982.2	14892.4	15181.8	15584.3	16702.0	18365.2	19605.9	19279.9	17560.2	14759.3	13388.8
15°	13744.8	13708.2	13871.2	14057.5	14909.0	16585.5	19107.0	20114.9	18578.1	15298.2	13605.1
17.5°	13348.9	13319.0	13368.9	13415.5	13967.6	15264.9	17919.4	20627.1	19552.7	15913.6	13844.6
20°	13671.6	13631.7	13625.0	13588.4	13818.0	14702.8	16845.0	20663.7	20427.6	16472.4	14050.8
22.5°	14613.0	14566.4	14403.4	14257.0	14277.0	14779.3	16366.0	20297.8	21086.2	16994.7	14180.5
25°	16319.4	16242.9	15903.6	15411.3	15098.6	15311.5	16439.2	19815.5	21714.9	17403.8	14117.3
27.5°	18455.0	18355.2	17919.4	17187.6	16472.4	16213.0	16968.1	19482.9	22237.1	17716.5	13981.0
30°	20547.3	20417.6	19988.5	19419.7	18375.2	17556.9	17922.8	19629.2	22859.2	18042.5	13801.3
32.5°	22805.9	22682.9	22114.1	21408.9	20544.0	19442.9	19230.0	20344.4	23620.9	18498.2	13674.9
35°	25663.3	25470.4	24662.1	23700.8	22782.7	21668.3	20999.7	21578.5	24635.5	19193.5	13744.8
37.5°	28916.6	28657.1	27785.6	26458.4	25260.8	24013.4	23155.2	23275.0	26122.4	20124.9	13961.0
40°	31983.5	31747.4	30942.4	29691.6	28188.1	26674.6	25759.8	25493.7	28174.8	21259.2	14340.2
42.5°	33823.1	33610.2	33270.9	32742.0	31474.6	29931.1	28776.9	28201.4	30603.1	22616.3	14802.6
45°	33926.2	33739.9	34195.6	34811.0	34561.5	33533.7	32126.6	31072.1	33041.3	23890.4	15281.6
47.5°	32276.3	32149.9	33533.7	35682.5	36753.6	37186.1	35888.8	33703.3	35053.8	24805.1	15477.8
50°	27778.9	27732.4	30579.8	34524.9	37588.6	40386.1	39857.2	36151.6	36613.9	25277.5	15291.6
52.5°	24086.6	23917.0	25576.9	30819.3	36374.4	42069.3	43735.8	38553.2	37705.0	25367.3	14855.8
55°	18268.7	18119.0	20201.4	24618.8	32459.2	41470.5	46573.2	41031.4	38486.7	25137.8	14074.1
57.5°	9799.6	9706.5	12337.7	16386.0	25373.9	37878.0	47085.5	43652.6	39145.3	24529.0	12979.7
60°	3815.4	3798.8	4783.4	7950.1	15421.3	30816.0	44500.9	45226.0	39557.8	23780.6	12064.9
62.5°	2308.5	2358.4	2518.1	3569.3	6812.5	19143.6	38543.2	43436.4	39833.9	23095.3	11309.8
65°	1909.4	1912.7	1932.7	2451.6	3263.2	8010.0	29016.4	37548.6	39152.0	21874.5	10238.7
67.5°	1636.6	1666.5	1743.0	1946.0	2301.9	3512.7	16705.3	29086.2	35003.9	19033.8	8568.9
70°	1290.7	1330.6	1427.0	1600.0	1776.3	2198.8	6173.8	19353.1	26741.1	14346.9	6479.9
72.5°	1087.7	1084.4	1134.3	1300.6	1410.4	1546.8	2375.1	10844.1	15541.0	6849.1	3206.7
75°	841.6	874.8	938.1	1087.7	1154.3	1121.0	1287.3	3961.8	5568.4	2075.7	1091.1
77.5°	658.6	685.2	741.8	888.2	954.7	795.0	741.8	1417.1	1789.6	745.1	492.3
80°	296.1	319.3	505.6	655.3	778.4	548.9	402.5	725.2	795.0	339.3	249.5
82.5°	53.2	89.8	296.1	345.9	399.2	355.9	209.6	375.9	389.2	136.4	86.5
85°	3.3	6.7	103.1	126.4	159.7	116.4	63.2	149.7	129.7	46.6	33.3
87.5°	0.0	0.0	0.0	3.3	3.3	16.6	20.0	26.6	20.0	16.6	13.3
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12999.7	12999.7	12999.7	12999.7	12999.7	12999.7	12999.7	12999.7	12999.7	12999.7
2.5°	12790.1	12317.7	11858.7	11482.8	11263.3	10890.7	10644.5	10604.6	10501.5	10591.3
5°	12543.9	11699.0	10844.1	10079.1	9450.4	8638.7	8033.3	7777.2	7554.3	7630.8
7.5°	12427.5	11093.6	9763.0	8455.8	7111.9	5814.6	4849.9	4447.4	4141.4	4184.6
10°	12271.2	10464.9	8379.3	6383.4	4583.8	3303.1	2637.9	2391.7	2255.3	2258.6
12.5°	12151.4	9713.2	6772.6	4327.7	2790.9	2109.0	1902.7	1842.8	1802.9	1806.2
15°	12091.5	8828.3	5185.9	2884.0	1995.9	1786.3	1736.4	1709.8	1683.2	1679.8
17.5°	11991.8	7843.7	3795.4	2105.6	1746.4	1673.2	1629.9	1600.0	1566.7	1560.1
20°	11842.1	6726.0	2774.2	1779.6	1636.6	1580.1	1520.2	1480.3	1440.3	1433.7
22.5°	11566.0	5545.1	2132.2	1646.6	1556.8	1493.6	1420.4	1373.8	1333.9	1327.2
25°	11053.7	4437.4	1796.3	1563.4	1486.9	1410.4	1330.6	1267.4	1230.8	1224.1
27.5°	10405.0	3486.1	1629.9	1486.9	1397.1	1327.2	1237.4	1177.6	1144.3	1137.6
30°	9640.0	2684.4	1533.5	1400.4	1290.7	1230.8	1150.9	1101.0	1081.1	1081.1
32.5°	8815.0	2145.5	1493.6	1313.9	1197.5	1131.0	1067.8	1047.8	1041.2	1037.8
35°	8040.0	1862.8	1473.6	1244.1	1114.4	1051.1	1024.5	1027.9	1041.2	1041.2
37.5°	7351.4	1773.0	1463.6	1194.2	1041.2	984.6	1001.3	1031.2	1017.9	1017.9
40°	6729.4	1783.0	1457.0	1157.6	981.3	948.0	981.3	958.0	924.7	921.4
42.5°	6253.7	1866.1	1443.7	1127.7	944.7	921.4	908.1	871.5	868.2	874.8
45°	5907.7	1939.3	1440.3	1114.4	904.8	861.5	844.9	808.3	874.8	891.5
47.5°	5498.6	1939.3	1440.3	1067.8	838.3	821.6	795.0	755.1	821.6	838.3
50°	4969.7	1816.2	1383.8	1014.6	785.0	775.1	728.5	678.6	665.3	675.3
52.5°	4301.1	1593.4	1240.8	941.4	731.8	711.9	655.3	618.7	608.7	608.7
55°	3539.3	1333.9	1047.8	834.9	675.3	638.7	598.8	582.1	572.1	565.5
57.5°	2877.4	1094.4	841.6	741.8	622.0	575.5	562.2	542.2	525.6	515.6
60°	2361.8	861.5	695.2	658.6	568.8	525.6	522.2	495.6	452.4	445.7
62.5°	1822.9	632.0	585.5	572.1	515.6	479.0	472.4	419.1	352.6	339.3
65°	1287.3	492.3	472.4	502.3	459.0	425.8	409.1	329.3	259.5	249.5
67.5°	904.8	412.5	372.6	439.1	399.2	355.9	345.9	279.4	216.2	209.6
70°	645.3	336.0	306.0	375.9	319.3	312.7	292.7	232.8	176.3	169.6
72.5°	455.7	256.1	236.2	326.0	219.5	269.4	239.5	179.6	133.1	126.4
75°	336.0	183.0	166.3	189.6	159.7	202.9	169.6	119.8	83.2	79.8
77.5°	246.2	116.4	99.8	93.1	93.1	126.4	93.1	49.9	36.6	33.3
80°	173.0	53.2	46.6	39.9	36.6	29.9	13.3	6.7	3.3	3.3
82.5°	103.1	23.3	23.3	16.6	10.0	0.0	0.0	0.0	0.0	0.0
85°	23.3	10.0	10.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.3	3.3	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)