

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: P953064

Luminaire Tested: **GALN-SB6D-727-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953064
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-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 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: 48801 lumens
Efficiency: N/A
Efficacy: 110.9 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

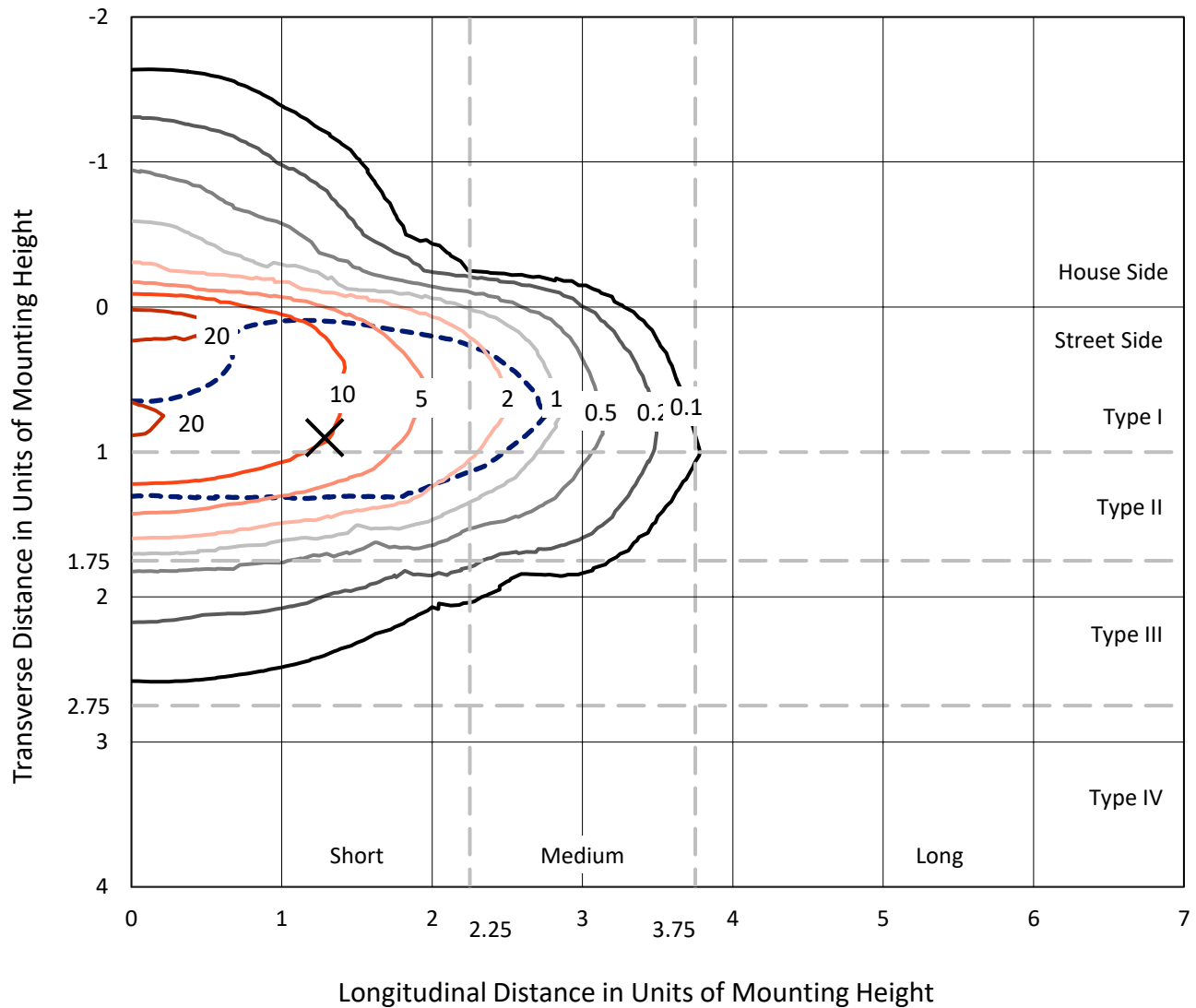


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Iso-Footcandle Lines of Horizontal Illumination

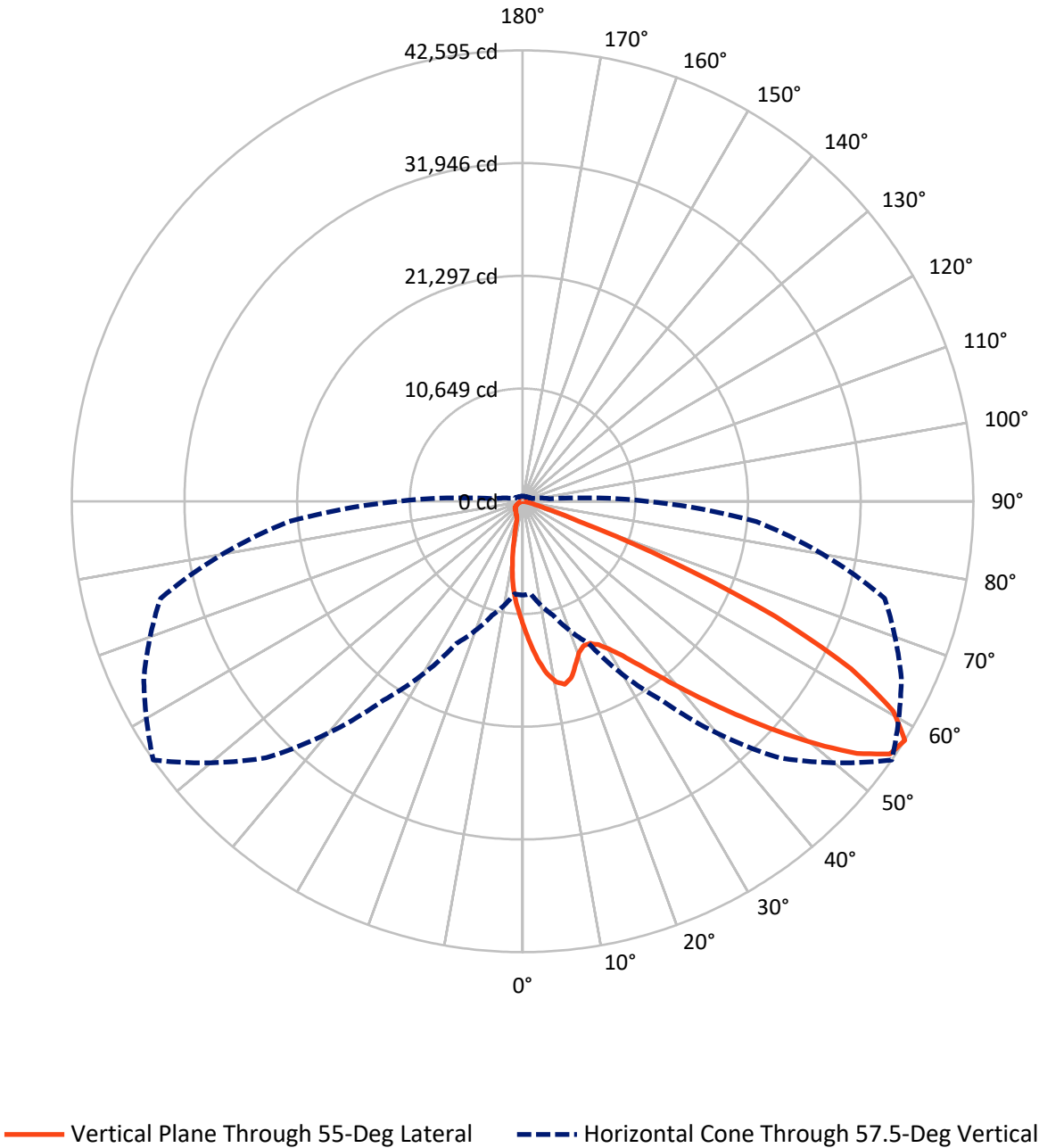
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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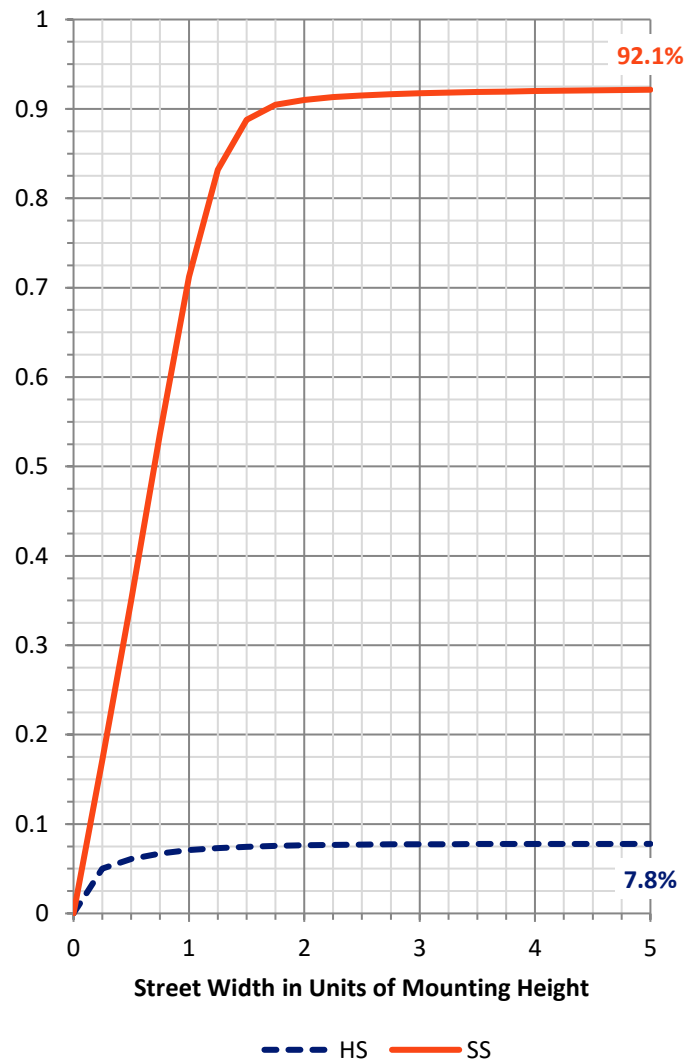
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3811.2	0.0	3811.2
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	44989.8	0.0	44989.8
	% Fixture	92.2	0.0	92.2
Total	Lumens	48801.0	0.0	48801.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1094.2	2.2
10°-20°	2643.0	5.4
20°-30°	4228.8	8.7
30°-40°	7157.5	14.7
40°-50°	11751.1	24.1
50°-60°	12915.3	26.5
60°-70°	7408.2	15.2
70°-80°	1513.7	3.1
80°-90°	89.3	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°	48801.0	100.0
0°-180°	48801.0	100.0

Coefficient of Utilization



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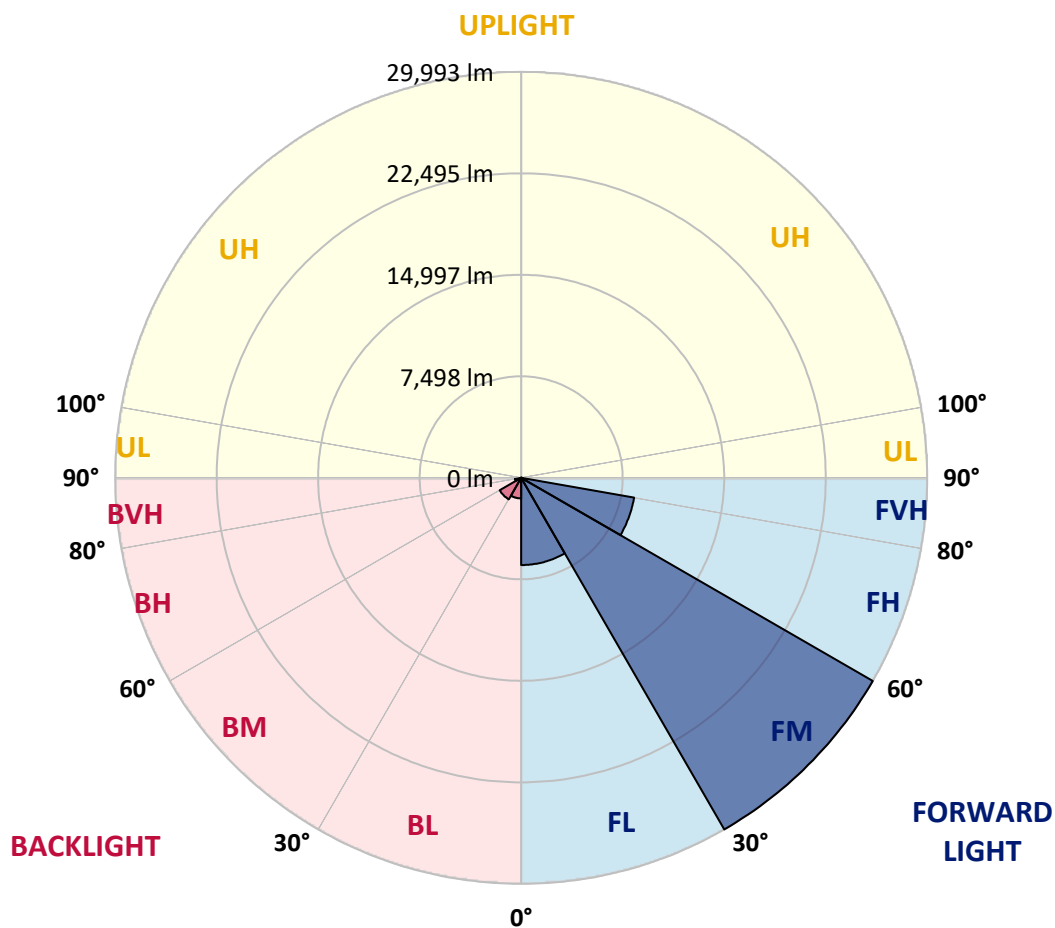
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6444.5	13.2			
FM	(30°-60°)	29993.4	61.5			
FH	(60°-80°)	8468.7	17.4			G4/12000
FVH	(80°-90°)	83.3	0.2			G1/100
BL	(0°-30°)	1521.5	3.1	B3/2500		
BM	(30°-60°)	1830.4	3.8	B2/2500		
BH	(60°-80°)	453.3	0.9	B1/500		G1/500
BVH	(80°-90°)	6.0	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°	11759.8	11759.8	11759.8	11759.8	11759.8	11759.8	11759.8	11759.8	11759.8	11759.8	11759.8
2.5°	14591.5	14407.9	14380.8	14344.7	13995.7	13733.9	13354.7	12939.4	12473.0	11997.6	11786.9
5°	16857.4	16712.9	16685.9	16517.3	16120.1	15674.8	15000.7	14149.1	13279.5	12256.4	11817.0
7.5°	17296.7	17269.6	17393.0	17387.0	17332.8	16980.7	16412.0	15397.9	14091.9	12575.3	11895.3
10°	15337.7	15407.0	15774.1	16096.1	16965.7	17471.2	17347.9	16511.3	14928.5	12939.4	11982.5
12.5°	13553.3	13472.1	13733.9	14098.0	15109.0	16613.6	17736.1	17441.2	15885.4	13351.7	12111.9
15°	12433.9	12400.8	12548.2	12716.8	13487.1	15003.7	17284.7	18196.5	16806.2	13839.2	12307.5
17.5°	12075.8	12048.7	12093.9	12136.0	12635.5	13809.1	16210.4	18659.9	17687.9	14395.9	12524.2
20°	12367.7	12331.6	12325.6	12292.5	12500.1	13300.5	15238.4	18693.0	18479.3	14901.4	12710.7
22.5°	13219.3	13177.2	13029.7	12897.3	12915.4	13369.7	14805.1	18362.0	19075.1	15373.9	12828.1
25°	14763.0	14693.8	14386.8	13941.5	13658.6	13851.2	14871.3	17925.6	19643.9	15744.0	12770.9
27.5°	16694.9	16604.6	16210.4	15548.4	14901.4	14666.7	15349.8	17624.7	20116.3	16026.8	12647.5
30°	18587.6	18470.3	18082.1	17567.5	16622.7	15882.4	16213.4	17757.1	20679.0	16321.7	12485.0
32.5°	20630.9	20519.5	20005.0	19367.0	18584.6	17588.6	17396.0	18404.1	21368.1	16734.0	12370.7
35°	23215.8	23041.2	22310.0	21440.3	20609.8	19601.7	18996.9	19520.5	22285.9	17362.9	12433.9
37.5°	26158.7	25924.0	25135.6	23934.9	22851.6	21723.2	20946.8	21055.2	23631.0	18205.5	12629.5
40°	28933.2	28719.5	27991.3	26859.9	25499.7	24130.5	23303.0	23062.3	25487.7	19231.6	12972.5
42.5°	30597.2	30404.7	30097.7	29619.3	28472.8	27076.5	26032.3	25511.7	27684.4	20459.4	13390.8
45°	30690.5	30522.0	30934.3	31491.0	31265.3	30335.4	29062.6	28108.7	29890.1	21611.9	13824.1
47.5°	29198.0	29083.6	30335.4	32279.4	33248.3	33639.5	32465.9	30488.9	31710.6	22439.4	14001.7
50°	25129.6	25087.5	27663.3	31232.2	34003.6	36534.3	36055.9	32703.7	33121.9	22866.7	13833.2
52.5°	21789.4	21635.9	23137.5	27880.0	32905.3	38057.0	39564.6	34876.3	34108.9	22947.9	13439.0
55°	16526.4	16391.0	18274.7	22270.9	29363.5	37515.3	42131.4	37118.1	34816.1	22740.3	12731.8
57.5°	8865.0	8780.8	11161.0	14823.2	22954.0	34265.4	42594.8	39489.3	35411.9	22189.6	11741.8
60°	3451.5	3436.5	4327.2	7191.9	13950.5	27877.0	40256.7	40912.7	35785.1	21512.6	10914.3
62.5°	2088.4	2133.5	2277.9	3228.8	6162.8	17317.8	34867.3	39293.7	36034.8	20892.7	10231.2
65°	1727.3	1730.3	1748.3	2217.8	2952.0	7246.1	26249.0	33967.5	35417.9	19788.3	9262.2
67.5°	1480.5	1507.6	1576.8	1760.4	2082.3	3177.7	15112.1	26312.2	31665.5	17218.5	7751.6
70°	1167.6	1203.7	1290.9	1447.4	1606.9	1989.1	5585.0	17507.4	24190.7	12978.6	5861.9
72.5°	984.0	981.0	1026.1	1176.6	1275.9	1399.3	2148.5	9809.9	14058.8	6195.9	2900.8
75°	761.3	791.4	848.6	984.0	1044.2	1014.1	1164.5	3583.9	5037.4	1877.7	987.0
77.5°	595.8	619.9	671.0	803.4	863.6	719.2	671.0	1281.9	1618.9	674.1	445.4
80°	267.8	288.9	457.4	592.8	704.1	496.5	364.1	656.0	719.2	306.9	225.7
82.5°	48.1	81.2	267.8	313.0	361.1	322.0	189.6	340.0	352.1	123.4	78.2
85°	3.0	6.0	93.3	114.3	144.4	105.3	57.2	135.4	117.4	42.1	30.1
87.5°	0.0	0.0	0.0	3.0	3.0	15.0	18.1	24.1	18.1	15.0	12.0
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°	11759.8	11759.8	11759.8	11759.8	11759.8	11759.8	11759.8	11759.8	11759.8	11759.8
2.5°	11570.3	11143.0	10727.7	10387.7	10189.1	9852.0	9629.3	9593.2	9500.0	9581.2
5°	11347.6	10583.3	9809.9	9117.8	8549.1	7814.8	7267.1	7035.4	6833.8	6903.0
7.5°	11242.3	10035.6	8831.9	7649.3	6433.6	5260.0	4387.4	4023.3	3746.4	3785.5
10°	11100.8	9466.9	7580.1	5774.6	4146.6	2988.1	2386.3	2163.6	2040.2	2043.2
12.5°	10992.5	8786.8	6126.7	3914.9	2524.7	1907.8	1721.2	1667.1	1631.0	1634.0
15°	10938.3	7986.3	4691.3	2609.0	1805.5	1615.9	1570.8	1546.7	1522.6	1519.6
17.5°	10848.1	7095.6	3433.5	1904.8	1579.8	1513.6	1474.5	1447.4	1417.3	1411.3
20°	10712.6	6084.5	2509.6	1609.9	1480.5	1429.4	1375.2	1339.1	1303.0	1297.0
22.5°	10462.9	5016.3	1928.9	1489.5	1408.3	1351.1	1284.9	1242.8	1206.7	1200.7
25°	9999.5	4014.2	1625.0	1414.3	1345.1	1275.9	1203.7	1146.5	1113.4	1107.4
27.5°	9412.7	3153.6	1474.5	1345.1	1263.9	1200.7	1119.4	1065.2	1035.2	1029.1
30°	8720.6	2428.4	1387.2	1266.9	1167.6	1113.4	1041.2	996.0	978.0	978.0
32.5°	7974.3	1940.9	1351.1	1188.6	1083.3	1023.1	965.9	947.9	941.9	938.9
35°	7273.2	1685.1	1333.1	1125.4	1008.1	950.9	926.8	929.8	941.9	941.9
37.5°	6650.3	1603.9	1324.0	1080.3	941.9	890.7	905.8	932.8	920.8	920.8
40°	6087.6	1612.9	1318.0	1047.2	887.7	857.6	887.7	866.6	836.5	833.5
42.5°	5657.2	1688.1	1306.0	1020.1	854.6	833.5	821.5	788.4	785.4	791.4
45°	5344.3	1754.3	1303.0	1008.1	818.5	779.4	764.3	731.2	791.4	806.5
47.5°	4974.2	1754.3	1303.0	965.9	758.3	743.3	719.2	683.1	743.3	758.3
50°	4495.7	1643.0	1251.8	917.8	710.2	701.1	659.0	613.9	601.8	610.9
52.5°	3890.9	1441.4	1122.4	851.6	662.0	644.0	592.8	559.7	550.7	550.7
55°	3201.8	1206.7	947.9	755.3	610.9	577.8	541.7	526.6	517.6	511.6
57.5°	2602.9	990.0	761.3	671.0	562.7	520.6	508.5	490.5	475.4	466.4
60°	2136.5	779.4	628.9	595.8	514.6	475.4	472.4	448.4	409.2	403.2
62.5°	1649.0	571.7	529.6	517.6	466.4	433.3	427.3	379.2	319.0	306.9
65°	1164.5	445.4	427.3	454.4	415.3	385.2	370.1	297.9	234.7	225.7
67.5°	818.5	373.1	337.0	397.2	361.1	322.0	313.0	252.8	195.6	189.6
70°	583.8	303.9	276.8	340.0	288.9	282.9	264.8	210.6	159.5	153.5
72.5°	412.3	231.7	213.7	294.9	198.6	243.7	216.7	162.5	120.4	114.3
75°	303.9	165.5	150.5	171.5	144.4	183.6	153.5	108.3	75.2	72.2
77.5°	222.7	105.3	90.3	84.3	84.3	114.3	84.3	45.1	33.1	30.1
80°	156.5	48.1	42.1	36.1	33.1	27.1	12.0	6.0	3.0	3.0
82.5°	93.3	21.1	21.1	15.0	9.0	0.0	0.0	0.0	0.0	0.0
85°	21.1	9.0	9.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.0	3.0	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

(END OF REPORT)