

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: P942637

Luminaire Tested: **GALN-SB6D-727-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942637
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
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-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57275 lumens
Efficiency: N/A
Efficacy: 130.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

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

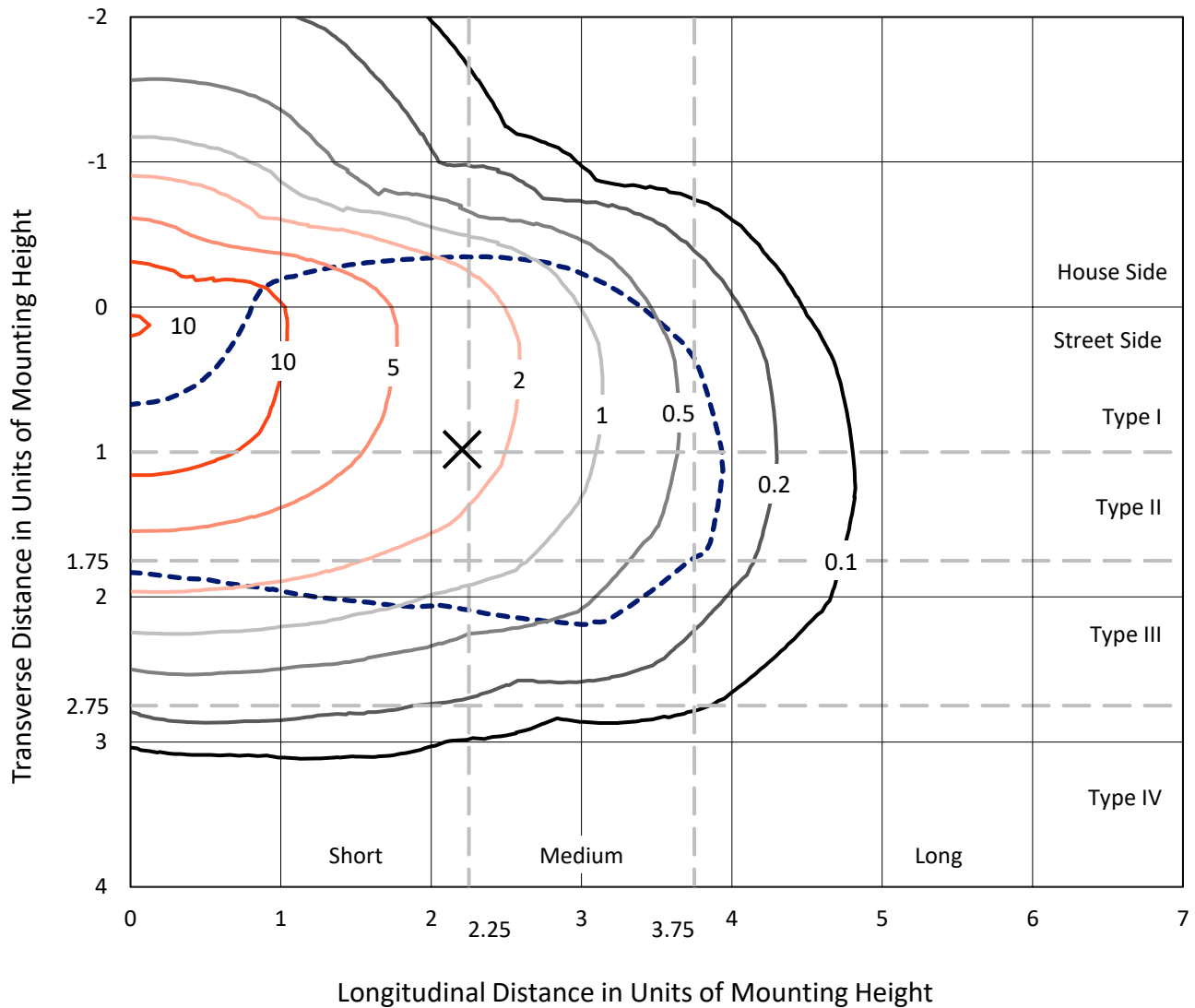


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

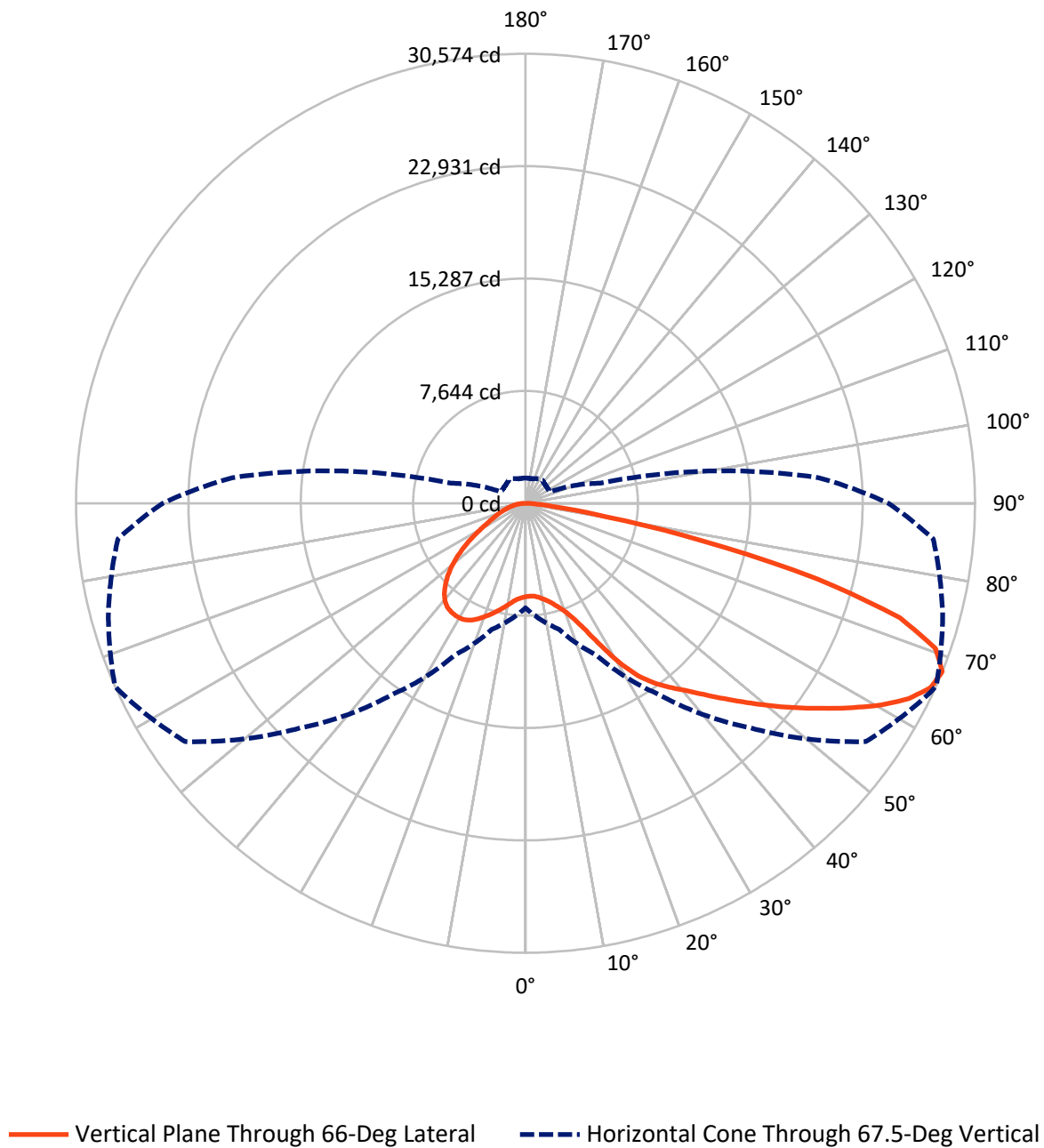


Based on 25 foot mounting height. Maximum calculated value = 14.4 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14241.3	0.0	14241.3
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	43033.7	0.0	43033.7
	% Fixture	75.1	0.0	75.1
Total	Lumens	57275.0	0.0	57275.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	629.8	1.1
10°-20°	2080.9	3.6
20°-30°	4010.8	7.0
30°-40°	7032.4	12.3
40°-50°	10454.8	18.3
50°-60°	13252.5	23.1
60°-70°	12967.2	22.6
70°-80°	6185.5	10.8
80°-90°	661.1	1.2
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°	57275.0	100.0
0°-180°	57275.0	100.0

Coefficient of Utilization



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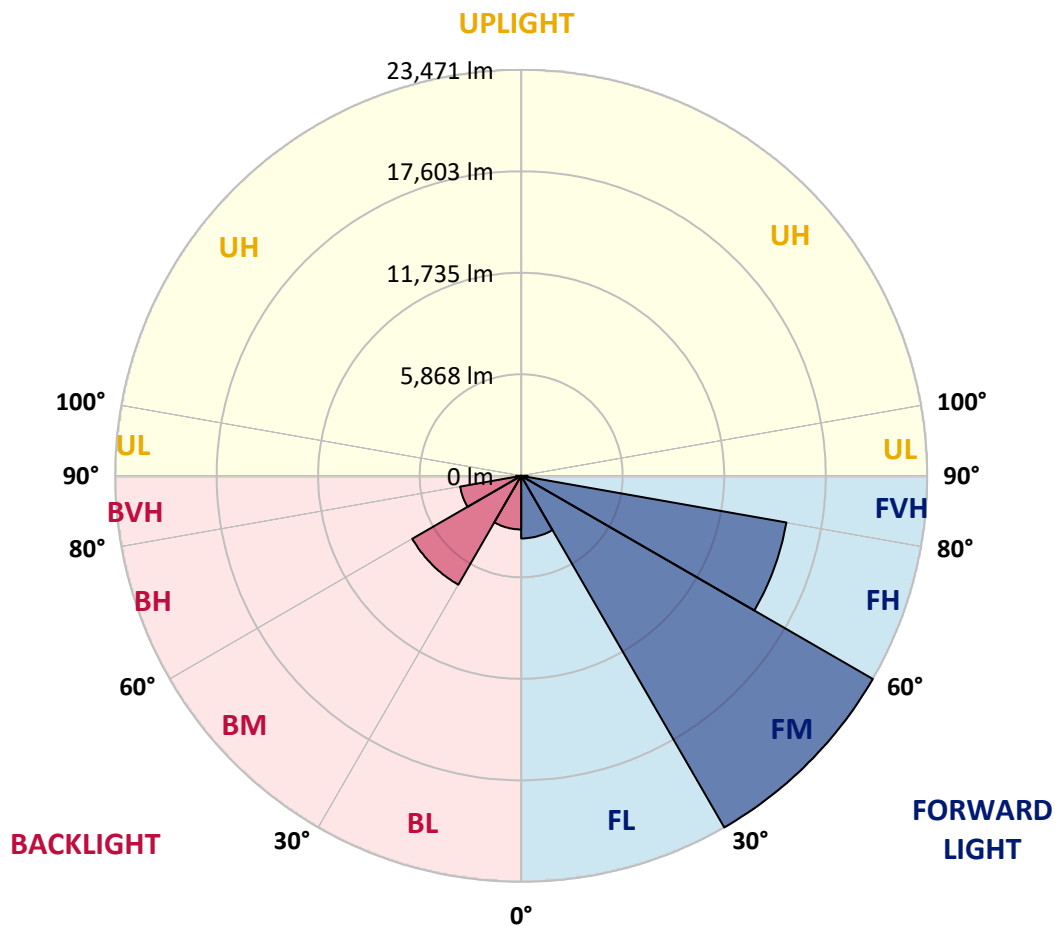
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3619.2	6.3			
FM	(30°-60°)	23470.8	41.0			
FH	(60°-80°)	15568.9	27.2			G5
FVH	(80°-90°)	374.8	0.7			G3/500
BL	(0°-30°)	3102.3	5.4	B4/5000		
BM	(30°-60°)	7268.9	12.7	B4/8500		
BH	(60°-80°)	3583.8	6.3	B4/5000		G4/5000
BVH	(80°-90°)	286.3	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6352.6	6352.6	6352.6	6352.6	6352.6	6352.6	6352.6	6352.6	6352.6	6352.6	6352.6
2.5°	6286.4	6322.5	6313.4	6298.4	6295.4	6301.4	6310.4	6319.5	6316.4	6331.5	6355.6
5°	6268.3	6304.4	6301.4	6301.4	6313.4	6337.5	6352.6	6367.6	6352.6	6370.6	6403.7
7.5°	6280.3	6307.4	6319.5	6331.5	6361.6	6406.7	6442.8	6475.9	6457.9	6478.9	6521.1
10°	6433.8	6454.9	6466.9	6466.9	6488.0	6539.1	6575.2	6635.4	6620.4	6653.5	6707.6
12.5°	6713.7	6734.7	6734.7	6722.7	6737.7	6770.8	6782.9	6849.1	6822.0	6876.2	6930.3
15°	7056.7	7098.9	7065.7	7044.7	7050.7	7083.8	7080.8	7132.0	7104.9	7150.0	7198.2
17.5°	7435.9	7490.1	7435.9	7432.9	7420.8	7457.0	7460.0	7505.1	7457.0	7490.1	7523.2
20°	7884.3	7959.5	7914.4	7929.4	7902.3	7917.4	7932.4	7998.6	7923.4	7947.5	7938.4
22.5°	8516.2	8606.5	8558.3	8615.5	8597.5	8585.4	8582.4	8699.8	8582.4	8591.4	8504.2
25°	9437.0	9545.4	9461.1	9539.4	9539.4	9578.5	9623.6	9774.1	9578.5	9521.3	9295.6
27.5°	10797.2	10905.6	10740.1	10788.2	10773.2	10869.5	10821.3	11194.5	10983.8	10890.5	10436.1
30°	12434.3	12626.9	12313.9	12301.9	12286.8	12440.3	12509.5	12756.3	12542.6	12449.3	11901.6
32.5°	14203.7	14405.3	14032.2	13923.9	13866.7	13960.0	13902.8	14101.4	13954.0	13809.5	13132.4
35°	16075.5	16274.1	15919.0	15708.4	15479.6	15284.0	15079.4	15130.6	14992.1	14772.5	14071.3
37.5°	17844.9	18209.1	17832.9	17607.2	17185.9	16803.7	16232.0	15994.2	15864.8	15663.2	14956.0
40°	19647.5	19855.1	19569.2	19376.6	18919.2	18320.4	17405.6	16903.0	16728.5	16532.9	15934.0
42.5°	20974.6	21173.2	21019.7	20887.3	20529.2	19834.1	18651.4	18022.5	17769.7	17550.0	17041.5
45°	22027.8	22175.3	22079.0	22127.1	21973.6	21299.6	19942.4	19223.2	18961.4	18693.5	18293.3
47.5°	22452.1	22608.6	22762.1	23047.9	23309.8	22813.2	21329.7	20523.2	20246.3	19972.5	19578.3
50°	22404.0	22563.5	23008.8	23616.7	24429.2	24263.7	22792.2	21907.4	21651.6	21338.7	20974.6
52.5°	22018.8	22199.3	22771.1	23782.2	25076.2	25350.0	24281.7	23336.8	23096.1	22722.9	22358.8
55°	21007.7	21116.0	21973.6	23406.0	25229.7	26108.4	25741.2	24859.5	24618.8	24098.2	23701.0
57.5°	19132.9	19289.4	20538.2	22391.9	24844.5	26623.0	27023.2	26460.5	26228.7	25479.4	25064.2
60°	16686.4	16936.1	18365.5	20688.7	23863.5	26619.9	28187.8	28034.3	27841.7	26839.6	26406.3
62.5°	13917.8	14206.7	15582.0	18281.3	22148.2	25864.6	28916.0	29352.4	29253.0	28094.5	27540.8
65°	10688.9	10887.5	12256.7	15166.7	19479.0	24242.6	29000.3	30252.1	30270.2	29048.4	28133.6
67.5°	7116.9	7688.7	8877.3	11381.0	15904.0	21591.5	28260.0	30399.6	30574.1	29376.4	27835.7
70°	3472.7	4225.0	5389.6	7396.8	11381.0	17525.9	26325.0	29189.9	29578.0	28419.5	26060.2
72.5°	1441.4	1685.2	2320.1	3650.2	6533.1	11826.4	22437.1	25909.8	26629.0	25181.5	21910.4
75°	972.0	1053.2	1327.1	1871.8	2976.2	5832.0	16180.8	19319.5	20478.0	19018.5	15545.9
77.5°	749.3	800.5	966.0	1309.0	1769.4	2205.8	8660.7	11642.8	12241.7	11332.9	8088.9
80°	589.8	628.9	722.2	953.9	1254.9	1179.6	2952.1	5275.2	5621.3	4715.5	2600.0
82.5°	511.6	526.6	517.6	647.0	833.6	689.1	969.0	1947.0	2148.6	1558.8	848.6
85°	370.1	412.3	430.3	400.2	442.4	349.1	397.2	689.1	758.3	677.1	478.5
87.5°	150.5	222.7	273.8	258.8	162.5	99.3	123.4	201.6	231.7	252.8	156.5
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°	6352.6	6352.6	6352.6	6352.6	6352.6	6352.6	6352.6	6352.6	6352.6	6352.6	6352.6
2.5°	6358.6	6379.6	6394.7	6412.7	6424.8	6442.8	6478.9	6500.0	6503.0	6518.1	6515.1
5°	6415.7	6445.8	6478.9	6527.1	6581.3	6626.4	6695.6	6743.8	6761.8	6776.9	6773.9
7.5°	6539.1	6581.3	6641.4	6725.7	6803.9	6864.1	6948.4	7005.6	7062.7	7083.8	7086.8
10°	6722.7	6782.9	6870.1	6984.5	7068.8	7147.0	7234.3	7282.4	7339.6	7363.7	7375.7
12.5°	6951.4	7014.6	7128.9	7288.4	7366.7	7420.8	7450.9	7438.9	7450.9	7472.0	7478.0
15°	7213.2	7282.4	7411.8	7583.3	7637.5	7589.4	7523.2	7463.0	7453.9	7460.0	7481.0
17.5°	7523.2	7574.3	7724.8	7869.2	7830.1	7631.5	7487.0	7390.8	7342.6	7327.6	7348.6
20°	7956.5	7956.5	8079.9	8170.1	7908.3	7571.3	7345.6	7189.1	7089.8	7047.7	7038.7
22.5°	8483.1	8435.0	8513.2	8450.0	7893.3	7402.8	7089.8	6819.0	6668.5	6608.3	6599.3
25°	9151.2	9094.0	9072.9	8681.7	7785.0	7135.0	6626.4	6298.4	6166.0	6132.9	6138.9
27.5°	10159.3	10014.8	9741.0	8808.1	7586.4	6713.7	6084.7	5780.8	5705.6	5708.6	5717.6
30°	11501.4	11212.5	10541.4	8829.2	7261.4	6117.8	5531.0	5314.4	5278.2	5293.3	5344.5
32.5°	12744.2	12470.4	11360.0	8732.9	6761.8	5534.0	5034.5	4890.1	4835.9	4853.9	4878.0
35°	13719.2	13644.0	12118.3	8597.5	6147.9	4986.3	4589.1	4465.7	4360.4	4336.3	4354.4
37.5°	14640.1	14610.0	12687.1	8407.9	5540.1	4598.2	4231.0	4068.5	3915.1	3830.8	3833.8
40°	15651.2	15621.1	13060.2	8116.0	5001.4	4261.1	3909.0	3695.4	3505.8	3352.3	3367.4
42.5°	16788.7	16611.1	13237.7	7697.7	4544.0	3975.2	3647.2	3358.3	3108.6	2967.1	2976.2
45°	18031.5	17631.3	13234.7	7165.1	4158.8	3713.4	3367.4	2958.1	2726.4	2594.0	2588.0
47.5°	19349.6	18606.3	13072.2	6575.2	3785.7	3424.5	2934.0	2621.1	2467.6	2386.3	2368.3
50°	20709.7	19518.1	12795.4	5898.2	3403.5	3096.5	2663.2	2449.5	2332.2	2256.9	2229.9
52.5°	21988.7	20345.6	12461.4	5130.8	3015.3	2777.5	2542.8	2377.3	2253.9	2169.7	2133.6
55°	23177.3	21058.8	11988.9	4345.4	2699.3	2563.9	2485.7	2347.2	2205.8	2106.5	2067.4
57.5°	24233.6	21522.2	11173.4	3608.1	2473.6	2416.4	2425.5	2296.1	2133.6	2049.3	1995.1
60°	25112.3	21862.3	9966.7	2925.0	2290.0	2272.0	2332.2	2199.8	2010.2	1913.9	1871.8
62.5°	25638.9	21856.3	8486.1	2395.4	2133.6	2139.6	2208.8	2079.4	1886.8	1796.5	1769.4
65°	25593.8	21320.6	6861.1	2049.3	1983.1	1989.1	2079.4	1947.0	1784.5	1730.3	1727.3
67.5°	24688.0	20014.6	5263.2	1823.6	1817.6	1844.7	1950.0	1856.7	1721.3	1715.3	1724.3
70°	22235.4	17303.3	3791.7	1643.1	1646.1	1685.2	1823.6	1799.5	1688.2	1700.2	1697.2
72.5°	17829.9	13192.6	2545.8	1453.5	1456.5	1519.7	1703.2	1754.4	1655.1	1814.6	1838.7
75°	11874.6	8227.3	1637.0	1251.9	1254.9	1336.1	1597.9	1667.1	1564.8	1808.6	1823.6
77.5°	5705.6	3698.4	1185.6	1053.2	1053.2	1128.5	1381.3	1492.6	1333.1	1405.3	1288.0
80°	1971.1	1390.3	932.9	848.6	830.6	881.7	1164.6	1294.0	1149.5	1059.3	993.1
82.5°	776.4	722.2	749.3	659.0	598.8	631.9	905.8	1068.3	845.6	764.4	761.3
85°	445.4	469.4	529.6	436.3	346.1	388.2	665.0	767.4	638.0	562.7	574.8
87.5°	120.4	165.5	243.8	225.7	156.5	165.5	316.0	424.3	367.1	282.9	291.9
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)