

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: P950212

Luminaire Tested: **GALN-SB4D-727-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950212
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB4D-727-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37599 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

Input Watts (W): 293.6
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

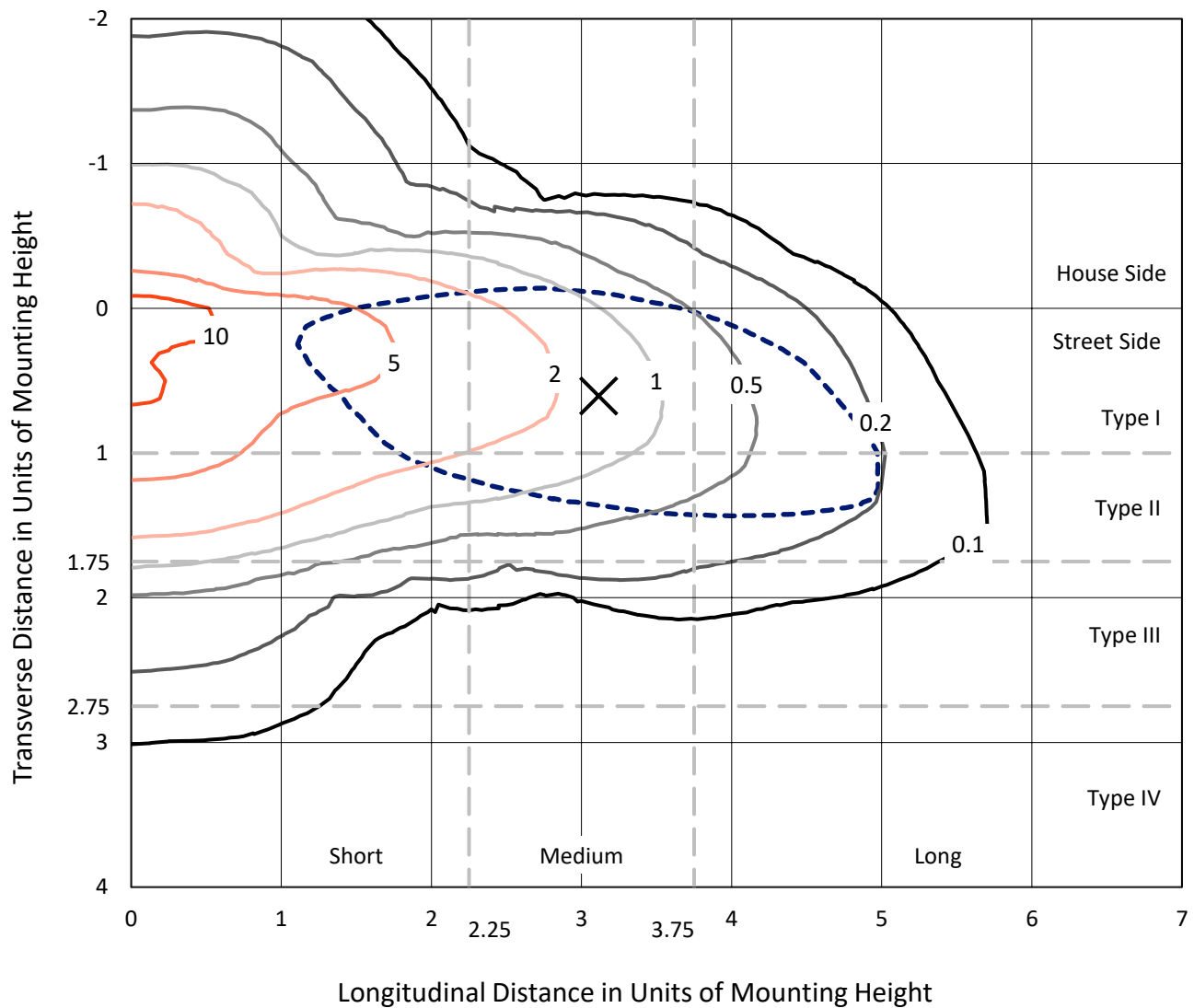


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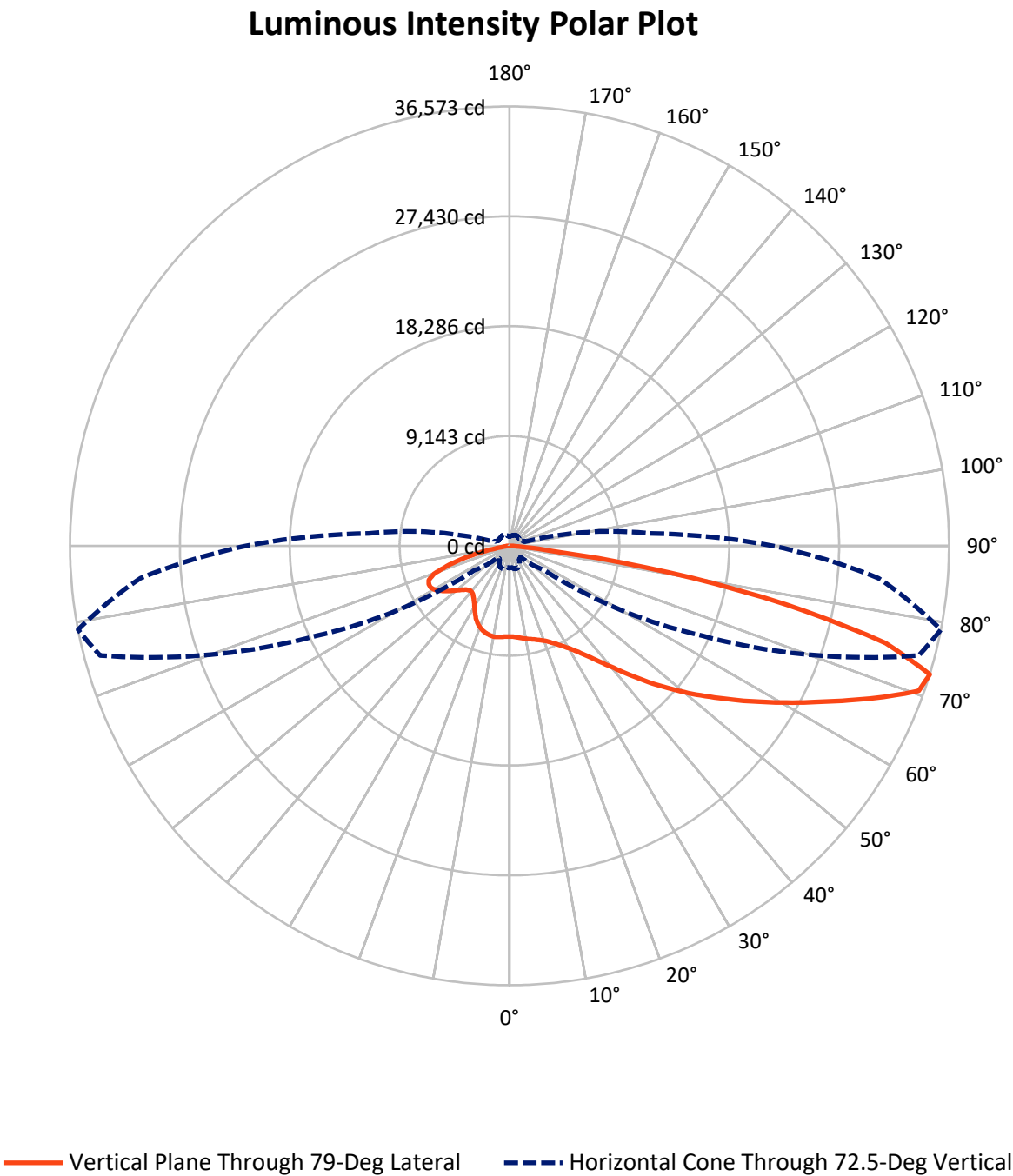
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc
Type II - Medium - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8273.9	0.0	8273.9
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	29325.2	0.0	29325.2
	% Fixture	78.0	0.0	78.0
Total	Lumens	37599.0	0.0	37599.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	685.1	1.8
10°-20°	1791.2	4.8
20°-30°	2890.3	7.7
30°-40°	4337.9	11.5
40°-50°	6153.6	16.4
50°-60°	7771.1	20.7
60°-70°	7892.7	21.0
70°-80°	5379.2	14.3
80°-90°	697.9	1.9
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°	37599.0	100.0
0°-180°	37599.0	100.0

Coefficient of Utilization



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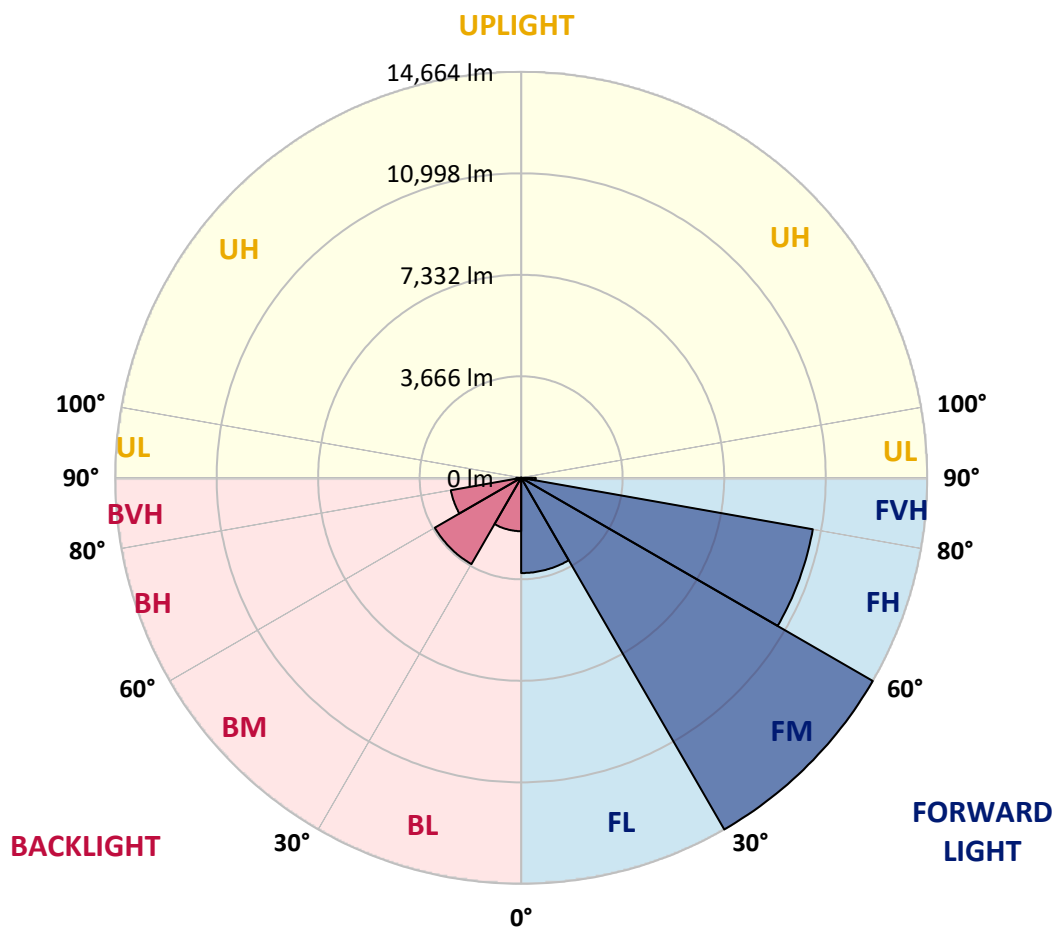
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3439.4	9.1			
FM	(30°-60°)	14664.4	39.0			
FH	(60°-80°)	10695.6	28.4			G4/12000
FVH	(80°-90°)	525.7	1.4			G4/750
BL	(0°-30°)	1927.2	5.1	B3/2500		
BM	(30°-60°)	3598.3	9.6	B3/5000		
BH	(60°-80°)	2576.2	6.9	B4/5000		G4/5000
BVH	(80°-90°)	172.2	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	7547.6	7547.6	7547.6	7547.6	7547.6	7547.6	7547.6	7547.6	7547.6	7547.6	7547.6
2.5°	7551.6	7515.8	7537.7	7529.7	7539.7	7551.6	7555.6	7561.6	7581.5	7579.5	7577.5
5°	7535.7	7499.9	7529.7	7519.8	7545.7	7573.5	7597.4	7619.2	7651.1	7665.0	7645.1
7.5°	7501.9	7478.0	7507.9	7537.7	7585.4	7627.2	7661.0	7710.7	7756.5	7764.4	7778.3
10°	7305.0	7287.1	7356.7	7434.3	7565.5	7678.9	7752.5	7810.2	7859.9	7867.8	7887.7
12.5°	7100.2	7078.3	7155.8	7261.2	7474.1	7678.9	7834.0	7909.6	7953.4	7979.2	8009.1
15°	7066.3	7048.4	7092.2	7183.7	7360.7	7625.2	7889.7	8028.9	8066.7	8096.6	8108.5
17.5°	7229.4	7195.6	7213.5	7245.3	7348.8	7575.5	7933.5	8164.2	8221.9	8253.7	8253.7
20°	7607.3	7559.6	7531.7	7468.1	7450.2	7583.4	7929.5	8327.3	8402.8	8442.6	8452.6
22.5°	8110.5	8078.7	8019.0	7857.9	7682.9	7680.9	8005.1	8536.1	8677.3	8715.1	8691.2
25°	8719.1	8671.3	8595.8	8377.0	8040.9	7873.8	8132.4	8802.6	9039.3	9049.2	8979.6
27.5°	9419.1	9347.5	9244.1	8955.7	8502.3	8176.1	8327.3	9108.9	9454.9	9451.0	9307.8
30°	10157.0	10085.4	9976.0	9626.0	9055.2	8583.8	8597.7	9439.0	9948.2	9926.3	9681.7
32.5°	10696.0	10642.3	10620.4	10349.9	9691.6	9065.1	8908.0	9805.0	10556.8	10536.9	10194.8
35°	11109.7	11040.0	11065.9	10928.7	10385.7	9604.1	9287.9	10240.5	11296.6	11294.6	10869.0
37.5°	11519.4	11457.7	11479.6	11388.1	11028.1	10288.3	9751.3	10773.5	12213.5	12257.2	11684.4
40°	11893.3	11827.6	11915.1	11829.6	11527.3	11016.2	10278.3	11376.2	13275.5	13359.0	12670.9
42.5°	12118.0	12066.3	12211.5	12213.5	11960.9	11630.7	10857.1	12040.4	14504.6	14691.5	13884.1
45°	12195.6	12177.7	12396.4	12442.2	12344.7	11986.7	11378.1	12764.4	15829.2	16163.3	15266.3
47.5°	12112.0	12078.2	12380.5	12549.6	12627.1	12153.8	11809.7	13548.0	17181.6	17670.8	16773.9
50°	11690.4	11624.8	12074.2	12430.2	12706.7	12263.2	12245.3	14452.9	18718.9	19253.9	18289.4
52.5°	10932.6	10882.9	11394.1	12012.6	12531.7	12316.9	12734.5	15441.3	20178.8	20870.9	19842.6
55°	9964.1	9898.4	10461.3	11268.8	12096.1	12299.0	13223.8	16547.1	21901.1	22603.1	21447.6
57.5°	8428.7	8297.4	9009.4	9964.1	11386.1	12277.1	13732.9	17647.0	23651.3	24492.5	23160.0
60°	6189.3	5994.4	6867.5	7999.1	9997.9	12064.3	14363.4	18880.0	25751.5	26509.2	25029.5
62.5°	3603.8	3490.4	4061.2	5117.3	7535.7	10811.3	14717.4	20314.0	27815.9	28611.4	26867.2
65°	2798.3	2766.5	2816.2	2897.7	4194.5	8094.6	13625.5	21712.1	30441.2	30998.0	28782.5
67.5°	2559.6	2535.8	2557.6	2404.5	2128.1	4508.7	10779.5	22066.2	33253.4	33591.5	30459.1
70°	2275.2	2247.4	2319.0	2187.7	1674.6	2050.5	6964.9	20781.4	35490.8	36125.3	31733.9
72.5°	1853.6	1821.8	1988.8	1929.2	1410.1	1316.6	3498.4	17728.5	35256.1	36572.7	30821.0
75°	1424.0	1406.1	1605.0	1654.7	1149.5	1036.2	1678.6	13178.0	31025.9	32352.4	26562.9
77.5°	1105.8	1091.9	1193.3	1374.3	926.8	803.5	1032.2	8359.1	23380.8	23613.5	18305.3
80°	829.3	789.6	883.0	1064.0	721.9	586.7	700.1	4874.6	14779.1	13396.8	7967.3
82.5°	519.1	499.2	576.8	710.0	509.1	403.7	455.4	2692.9	5922.8	3488.4	1537.4
85°	296.3	288.4	314.2	405.7	276.4	232.7	260.5	1189.3	1081.9	743.8	463.4
87.5°	119.3	115.4	143.2	181.0	101.4	85.5	91.5	286.4	238.7	220.8	153.1
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°	7547.6	7547.6	7547.6	7547.6	7547.6	7547.6	7547.6	7547.6	7547.6	7547.6	7547.6
2.5°	7569.5	7569.5	7541.7	7497.9	7448.2	7416.4	7364.7	7350.7	7297.0	7281.1	7307.0
5°	7661.0	7645.1	7559.6	7436.3	7267.2	7112.1	6941.0	6833.6	6682.5	6628.8	6668.6
7.5°	7776.4	7732.6	7585.4	7314.9	6960.9	6612.9	6250.9	5976.5	5713.9	5620.5	5632.4
10°	7881.8	7820.1	7569.5	7096.2	6483.6	5881.0	5304.2	4900.5	4594.2	4468.9	4496.8
12.5°	7987.2	7873.8	7464.1	6732.2	5805.4	4988.0	4373.5	4059.2	3870.3	3719.1	3768.8
15°	8086.6	7927.5	7301.0	6245.0	5061.6	4232.2	3778.8	3528.2	3377.0	3277.6	3295.5
17.5°	8202.0	7973.3	7056.4	5626.4	4353.6	3709.2	3339.3	3188.1	3158.3	3146.3	3154.3
20°	8363.1	8015.0	6734.2	4934.3	3832.5	3291.5	3100.6	3086.7	3084.7	3078.7	3098.6
22.5°	8536.1	8064.7	6308.6	4305.8	3389.0	3031.0	2997.2	2969.3	2951.4	2949.4	2971.3
25°	8740.9	8080.7	5775.6	3790.7	3011.1	2907.7	2867.9	2826.1	2814.2	2814.2	2826.1
27.5°	8939.8	8027.0	5155.1	3343.2	2798.3	2794.3	2742.6	2728.7	2726.7	2732.7	2748.6
30°	9138.7	7925.5	4538.5	2929.6	2675.0	2675.0	2657.1	2667.0	2675.0	2694.9	2708.8
32.5°	9407.2	7818.1	4023.4	2623.3	2567.6	2547.7	2565.6	2585.5	2593.4	2619.3	2641.2
35°	9801.0	7742.5	3613.7	2456.2	2456.2	2430.4	2440.3	2436.3	2418.4	2406.5	2434.3
37.5°	10322.1	7738.6	3275.6	2378.7	2362.7	2358.8	2360.8	2334.9	2265.3	2181.8	2183.7
40°	10948.6	7846.0	3015.1	2325.0	2313.0	2336.9	2325.0	2255.3	2064.4	1919.2	1915.3
42.5°	11789.8	8152.2	2848.0	2259.3	2295.1	2325.0	2277.2	2036.6	1907.3	1809.8	1805.9
45°	12780.3	8649.5	2762.5	2189.7	2261.3	2297.1	2066.4	1961.0	1857.6	1740.2	1732.3
47.5°	13902.0	9275.9	2742.6	2124.1	2185.7	2207.6	1976.9	1929.2	1811.8	1684.5	1674.6
50°	15123.1	10017.8	2796.3	2046.5	2076.3	2000.8	1947.1	1903.3	1782.0	1656.7	1642.8
52.5°	16386.0	10835.2	2903.7	1941.1	1967.0	1883.4	1935.1	1897.4	1764.1	1595.0	1583.1
55°	17627.1	11658.6	3007.1	1817.8	1855.6	1778.0	1901.3	1873.5	1682.6	1491.6	1481.7
57.5°	18888.0	12478.0	3108.6	1708.4	1748.2	1676.6	1847.6	1809.8	1591.1	1396.2	1392.2
60°	20198.6	13273.5	3156.3	1603.0	1630.8	1583.1	1766.1	1700.5	1487.7	1298.7	1292.7
62.5°	21425.8	13935.8	3078.7	1497.6	1515.5	1495.6	1658.7	1571.2	1384.2	1189.3	1187.3
65°	22656.8	14329.6	2840.1	1394.2	1398.2	1388.2	1507.5	1432.0	1262.9	1093.9	1081.9
67.5°	23772.6	14550.3	2460.2	1282.8	1272.9	1268.9	1366.3	1280.8	1145.6	998.4	986.5
70°	24009.3	13989.5	1879.5	1151.5	1151.5	1141.6	1211.2	1123.7	1016.3	897.0	893.0
72.5°	21928.9	11768.0	1334.5	1002.4	1018.3	998.4	1056.1	982.5	885.0	805.5	781.6
75°	17682.8	8629.6	970.6	849.2	877.1	843.3	897.0	845.3	761.7	759.7	684.2
77.5°	12149.8	5336.1	704.0	700.1	720.0	676.2	737.9	710.0	634.4	600.6	562.8
80°	5184.9	2128.1	513.1	541.0	541.0	501.2	572.8	580.7	515.1	499.2	499.2
82.5°	1032.2	604.6	360.0	371.9	350.0	338.1	405.7	449.5	620.5	690.1	692.1
85°	310.3	222.7	216.8	202.9	179.0	181.0	238.7	451.5	556.9	318.2	274.5
87.5°	85.5	55.7	57.7	45.7	37.8	49.7	81.5	342.1	187.0	79.6	67.6
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)