

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: P953082

Luminaire Tested: **GALN-SB6D-727-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953082
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
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-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57125 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - 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

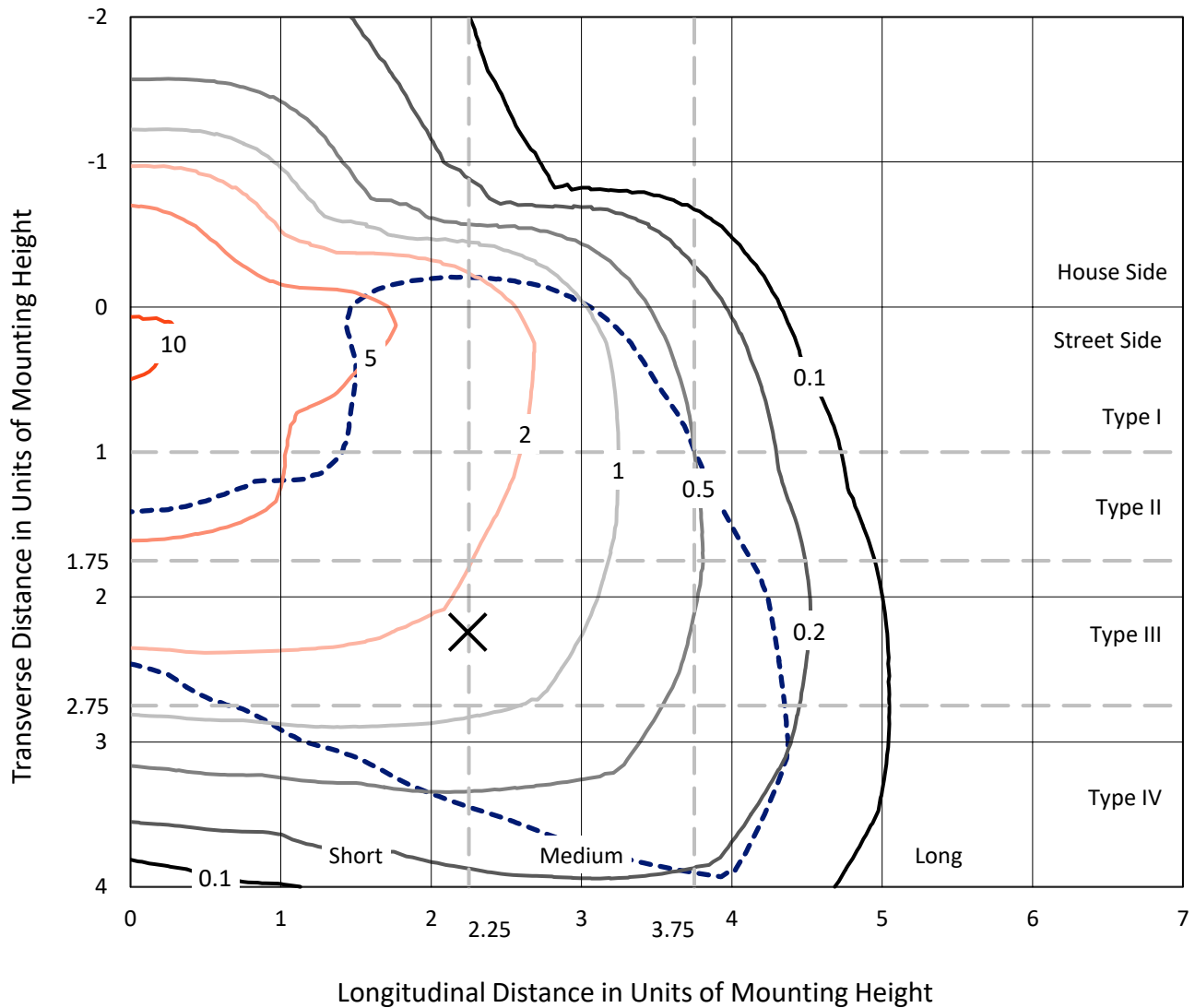


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

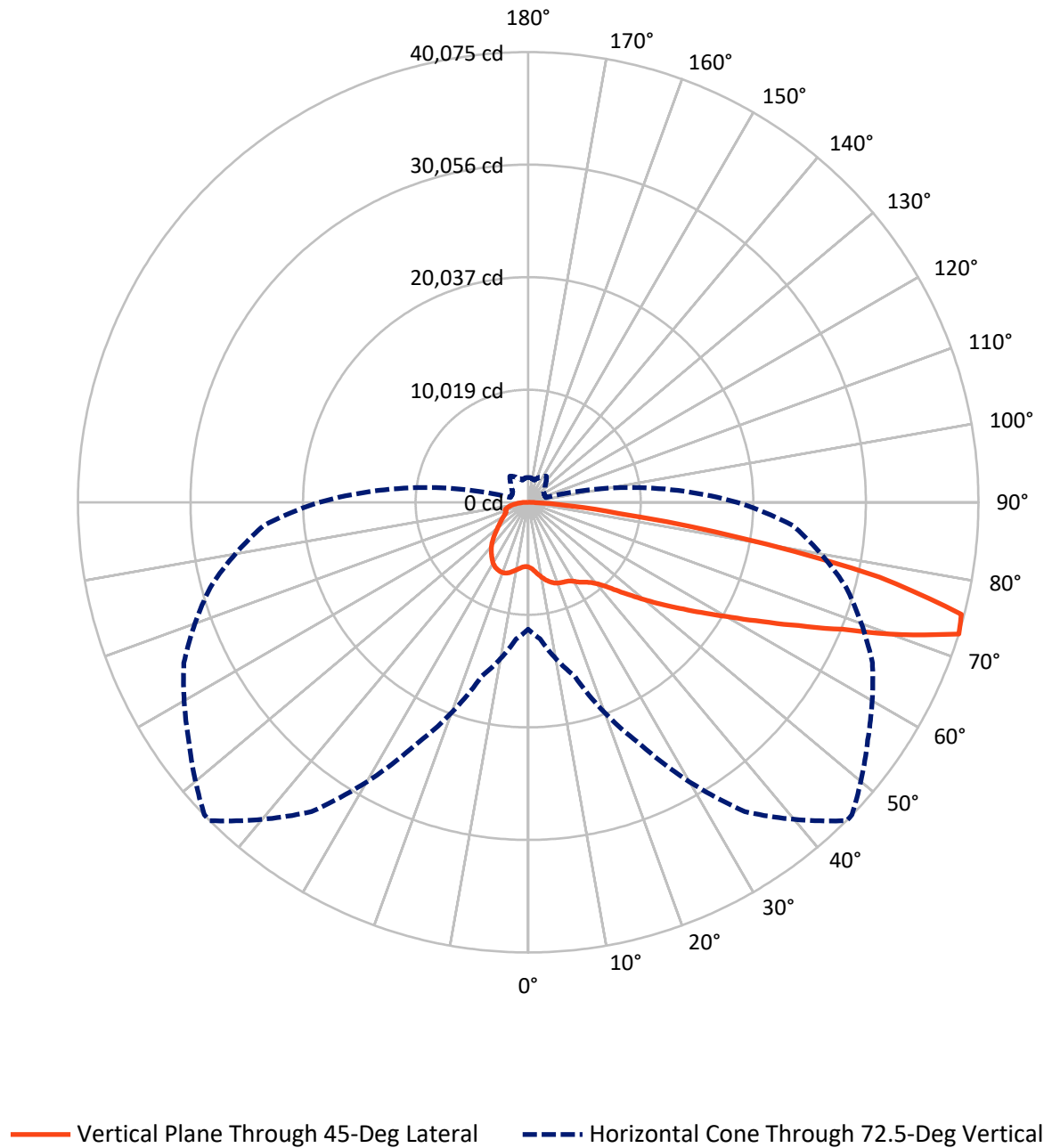


Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12914.0	0.0	12914.0
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	44211.0	0.0	44211.0
	% Fixture	77.4	0.0	77.4
Total	Lumens	57125.0	0.0	57125.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	586.5	1.0
10°-20°	1955.6	3.4
20°-30°	3401.9	6.0
30°-40°	4876.8	8.5
40°-50°	6866.8	12.0
50°-60°	10517.9	18.4
60°-70°	15236.7	26.7
70°-80°	12167.4	21.3
80°-90°	1515.4	2.7
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°	57125.0	100.0
0°-180°	57125.0	100.0

Coefficient of Utilization



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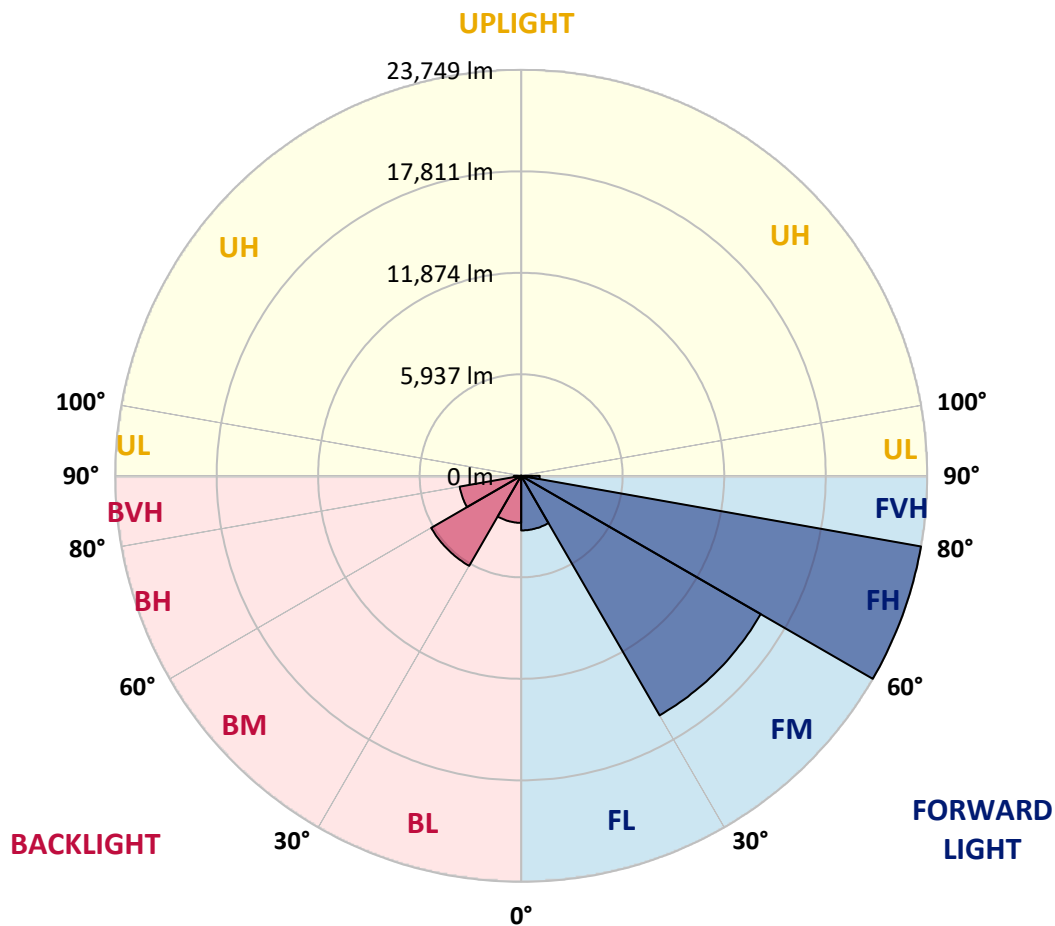
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3194.5	5.6			
FM	(30°-60°)	16180.8	28.3			
FH	(60°-80°)	23748.5	41.6			G5
FVH	(80°-90°)	1087.2	1.9			G5
BL	(0°-30°)	2749.5	4.8	B4/5000		
BM	(30°-60°)	6080.7	10.6	B4/8500		
BH	(60°-80°)	3655.6	6.4	B4/5000		G4/5000
BVH	(80°-90°)	428.2	0.7			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	5762.8	5762.8	5762.8	5762.8	5762.8	5762.8	5762.8	5762.8	5762.8	5762.8	5762.8
2.5°	5988.5	6027.6	5991.5	5958.4	5943.4	5904.2	5901.2	5877.2	5862.1	5820.0	5807.9
5°	6406.8	6457.9	6397.8	6331.6	6271.4	6175.1	6163.0	6093.8	6015.6	5925.3	5874.1
7.5°	6879.2	6924.4	6855.2	6755.9	6650.5	6491.1	6488.0	6361.7	6238.3	6084.8	5997.5
10°	7291.5	7351.7	7258.4	7123.0	6990.6	6810.0	6789.0	6644.5	6488.0	6289.4	6157.0
12.5°	7655.6	7697.8	7607.5	7442.0	7288.5	7108.0	7080.9	6921.4	6746.8	6521.1	6352.6
15°	7944.5	7998.7	7878.3	7700.8	7538.3	7360.7	7336.7	7192.2	7017.7	6779.9	6563.3
17.5°	8134.1	8179.3	8055.9	7857.3	7700.8	7553.3	7535.3	7414.9	7261.4	7020.7	6789.0
20°	8206.3	8254.5	8125.1	7923.5	7779.0	7664.7	7655.6	7568.4	7463.1	7243.4	7008.6
22.5°	8278.6	8323.7	8155.2	7944.5	7818.1	7745.9	7742.9	7685.7	7643.6	7463.1	7234.3
25°	8570.5	8582.5	8356.8	8052.9	7872.3	7809.1	7806.1	7803.1	7821.2	7679.7	7478.1
27.5°	8823.3	8820.2	8627.6	8341.8	8061.9	7929.5	7926.5	7956.6	8013.8	7896.4	7730.9
30°	9193.4	9160.3	8931.6	8633.7	8377.9	8173.2	8155.2	8128.1	8173.2	8080.0	7983.7
32.5°	9978.8	9873.5	9503.4	8973.7	8639.7	8483.2	8459.1	8290.6	8308.7	8251.5	8203.3
35°	11104.3	10965.9	10472.3	9617.7	8964.7	8742.0	8730.0	8516.3	8480.2	8429.0	8447.1
37.5°	12443.4	12271.9	11697.1	10550.6	9524.4	9042.9	9024.9	8832.3	8684.8	8630.7	8733.0
40°	13788.6	13571.9	13096.5	11688.1	10349.0	9545.5	9488.3	9196.4	9027.9	8937.6	9154.3
42.5°	15094.6	14914.1	14507.8	12964.0	11366.1	10279.8	10153.4	9653.8	9527.4	9443.2	9834.4
45°	16250.2	16087.7	15789.8	14327.3	12557.8	11278.8	11155.5	10339.9	10300.8	10300.8	10866.6
47.5°	17189.1	17153.0	16837.0	15717.5	13963.1	12416.4	12202.7	11293.9	11399.2	11561.7	12332.1
50°	18230.3	18131.0	17794.0	17086.8	15615.2	13719.4	13544.8	12464.5	12858.7	13304.1	14450.6
52.5°	19187.3	19241.4	18865.3	18513.2	17481.0	15172.9	14865.9	13845.8	14697.4	15434.7	16933.3
55°	20171.3	20174.3	20069.0	20020.8	19437.0	16779.8	16442.8	15506.9	16861.1	17775.9	19828.2
57.5°	21095.2	21101.2	21257.7	21682.0	21706.0	18633.6	18251.4	17547.2	19265.5	20198.4	22813.5
60°	21919.7	21961.8	22389.2	23382.2	23701.2	20758.1	20397.0	19957.6	21751.2	22690.1	25952.2
62.5°	22196.6	22350.0	23301.0	24712.3	25672.3	23364.2	23009.1	22747.3	24363.3	25236.0	28576.3
65°	21727.1	22079.2	23917.9	25810.7	27700.6	26460.7	26108.6	25822.8	27077.6	27899.2	30730.9
67.5°	20574.6	21029.0	23881.8	26963.3	30162.2	30186.2	29858.2	29187.2	29987.6	30303.6	31432.1
70°	17538.2	18218.3	21778.3	27393.6	32987.9	35281.0	34965.0	33237.7	32891.6	31362.9	29458.0
72.5°	11299.9	12214.7	16036.5	23851.7	33616.8	40074.8	40056.7	36894.0	33809.4	29304.5	23626.0
75°	4122.7	4682.5	7451.0	14971.2	28218.2	39831.0	39948.4	36268.0	30863.3	22635.9	14718.5
77.5°	1501.6	1643.1	2431.5	5753.8	17354.6	31958.7	32202.5	28994.6	21967.9	11360.1	5832.0
80°	788.4	866.7	1245.8	2232.9	7436.0	18979.6	19361.8	17231.2	10324.9	3421.6	1748.4
82.5°	436.3	472.5	698.2	1212.7	3349.3	8116.1	8344.8	6807.0	3632.2	1450.5	722.2
85°	234.7	249.8	328.0	662.0	1637.1	2813.7	2876.9	2034.3	1447.5	851.6	349.1
87.5°	69.2	84.3	108.3	210.7	641.0	632.0	647.0	403.2	571.8	430.3	114.4
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°	5762.8	5762.8	5762.8	5762.8	5762.8	5762.8	5762.8	5762.8	5762.8	5762.8	5762.8
2.5°	5789.9	5780.9	5747.8	5732.7	5714.7	5711.6	5726.7	5729.7	5732.7	5735.7	5747.8
5°	5844.1	5814.0	5783.9	5765.8	5771.8	5774.8	5804.9	5826.0	5841.0	5853.1	5859.1
7.5°	5949.4	5925.3	5874.1	5871.1	5880.2	5907.2	5946.4	5994.5	6021.6	6042.7	6048.7
10°	6105.9	6060.7	6000.5	6009.6	6027.6	6066.7	6148.0	6187.1	6232.3	6271.4	6262.3
12.5°	6265.4	6226.2	6157.0	6163.0	6193.1	6262.3	6340.6	6388.7	6418.8	6448.9	6461.0
15°	6473.0	6403.8	6328.5	6328.5	6382.7	6457.9	6494.1	6533.2	6551.2	6584.3	6596.4
17.5°	6686.7	6596.4	6497.1	6491.1	6557.3	6593.4	6614.4	6620.4	6626.5	6662.6	6674.6
20°	6900.3	6801.0	6659.6	6647.5	6662.6	6656.6	6653.6	6647.5	6656.6	6701.7	6719.8
22.5°	7111.0	6996.6	6801.0	6746.8	6704.7	6647.5	6644.5	6641.5	6647.5	6692.7	6722.8
25°	7357.7	7219.3	6957.5	6795.0	6653.6	6575.3	6584.3	6587.3	6593.4	6629.5	6677.6
27.5°	7625.6	7472.1	7101.9	6779.9	6524.2	6470.0	6454.9	6464.0	6485.0	6542.2	6599.4
30°	7893.4	7712.8	7234.3	6719.8	6361.7	6286.4	6238.3	6259.3	6325.5	6382.7	6445.9
32.5°	8137.1	7956.6	7339.7	6587.3	6154.0	6036.6	5973.5	6000.5	6066.7	6087.8	6163.0
35°	8423.0	8218.4	7384.8	6376.7	5928.3	5747.8	5663.5	5624.4	5657.5	5636.4	5702.6
37.5°	8742.0	8528.3	7378.8	6099.8	5663.5	5455.9	5338.5	5191.0	5121.8	5049.6	5094.7
40°	9214.5	8907.5	7306.6	5765.8	5335.5	5145.9	4935.2	4685.5	4529.0	4387.6	4396.6
42.5°	9858.5	9434.1	7174.2	5398.7	4965.3	4787.8	4501.9	4210.0	3963.2	3728.5	3707.5
45°	10818.4	10123.3	7008.6	5007.5	4565.1	4390.6	4080.6	3752.6	3472.7	3171.8	3135.7
47.5°	12202.7	11050.1	6852.2	4562.1	4143.8	3984.3	3704.4	3400.5	3069.5	2777.6	2744.5
50°	14104.6	12380.2	6707.7	4128.8	3728.5	3608.1	3385.5	3075.5	2741.5	2506.7	2491.7
52.5°	16524.0	14188.8	6647.5	3710.5	3340.3	3295.2	3117.6	2828.7	2512.8	2314.1	2299.1
55°	19301.6	16352.5	6647.5	3310.2	3000.3	3015.3	2891.9	2624.1	2350.3	2172.7	2154.7
57.5°	22136.4	18543.3	6527.2	2940.1	2711.4	2774.6	2696.3	2461.6	2214.8	2031.3	2001.2
60°	24748.4	20378.9	6039.7	2603.0	2455.6	2554.9	2503.7	2302.1	2001.2	1847.7	1823.6
62.5°	26755.6	21414.1	5100.8	2335.2	2244.9	2359.3	2332.2	2091.5	1962.1	1898.9	1877.8
65°	27760.7	21245.6	3900.0	2097.5	2067.4	2244.9	2187.8	2178.7	2076.4	2004.2	1980.1
67.5°	27143.8	19795.1	2828.7	1922.9	1965.1	2139.6	2359.3	2395.4	2205.8	2064.4	2040.3
70°	24438.5	17171.0	2106.5	1757.4	1835.7	2142.6	2690.3	2506.7	2163.7	1998.2	1971.1
72.5°	18591.4	12804.6	1634.0	1582.9	1667.1	2157.7	2837.8	2455.6	2043.3	2208.8	2190.8
75°	10631.8	7029.7	1312.1	1369.2	1456.5	2016.2	2762.5	2323.2	1950.0	2028.3	2028.3
77.5°	4053.5	2702.3	1083.3	1158.6	1170.6	1760.4	2642.2	2314.1	1856.7	1811.6	1652.1
80°	1405.3	1056.3	896.8	920.8	905.8	1564.8	2533.8	2013.2	1519.7	1360.2	1315.1
82.5°	574.8	526.6	710.2	680.1	644.0	1215.8	2046.3	1646.1	1242.8	1098.4	1086.4
85°	249.8	334.0	469.5	412.3	373.2	842.6	1640.1	1393.3	1050.2	905.8	902.8
87.5°	51.2	126.4	198.6	186.6	192.6	562.7	1164.6	990.1	743.3	556.7	436.3
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)