

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: P951654

Luminaire Tested: **GALN-SB5D-727-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951654
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-SB5D-727-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 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: 47586 lumens
Efficiency: N/A
Efficacy: 130.4 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): 364.9
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

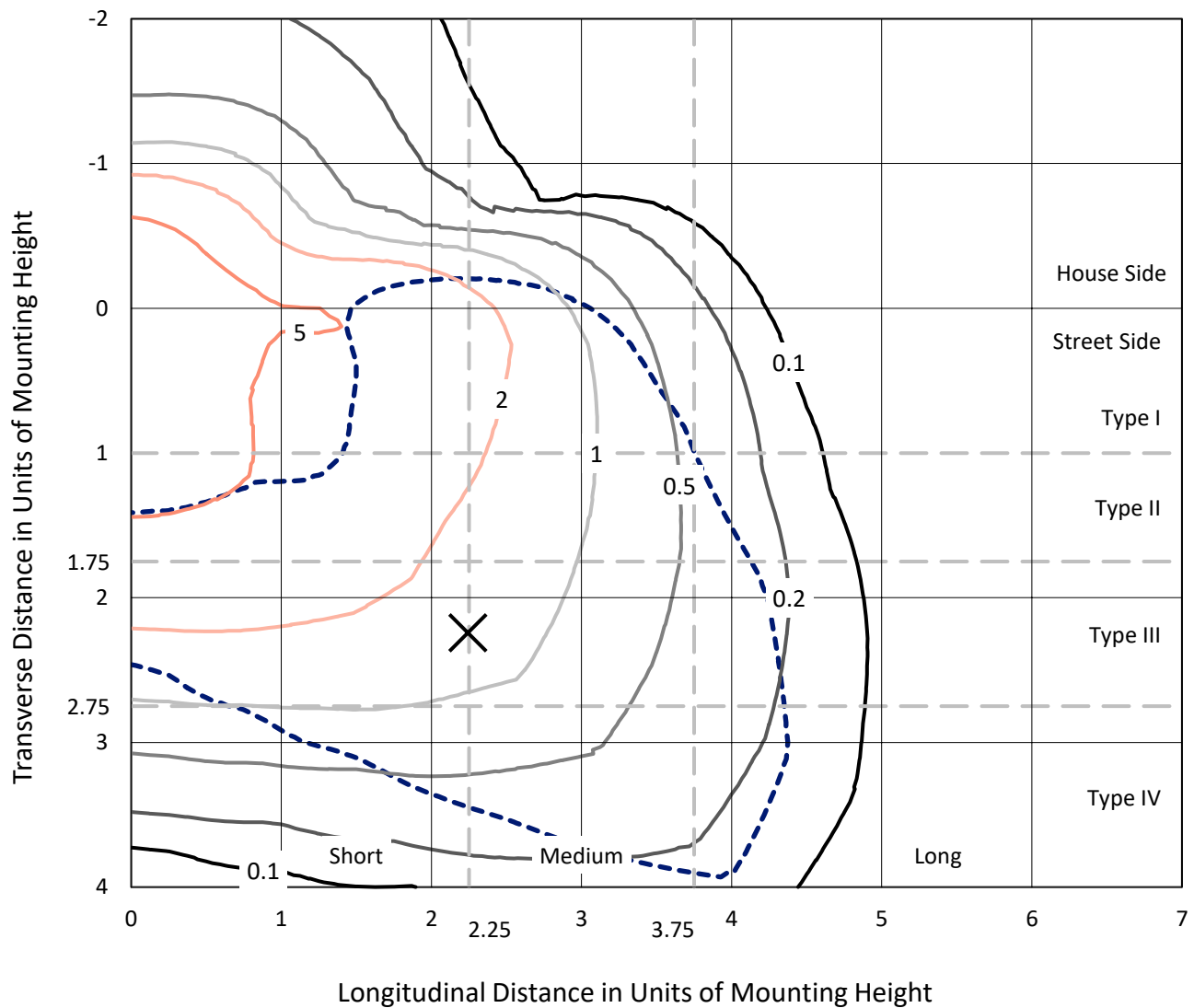


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

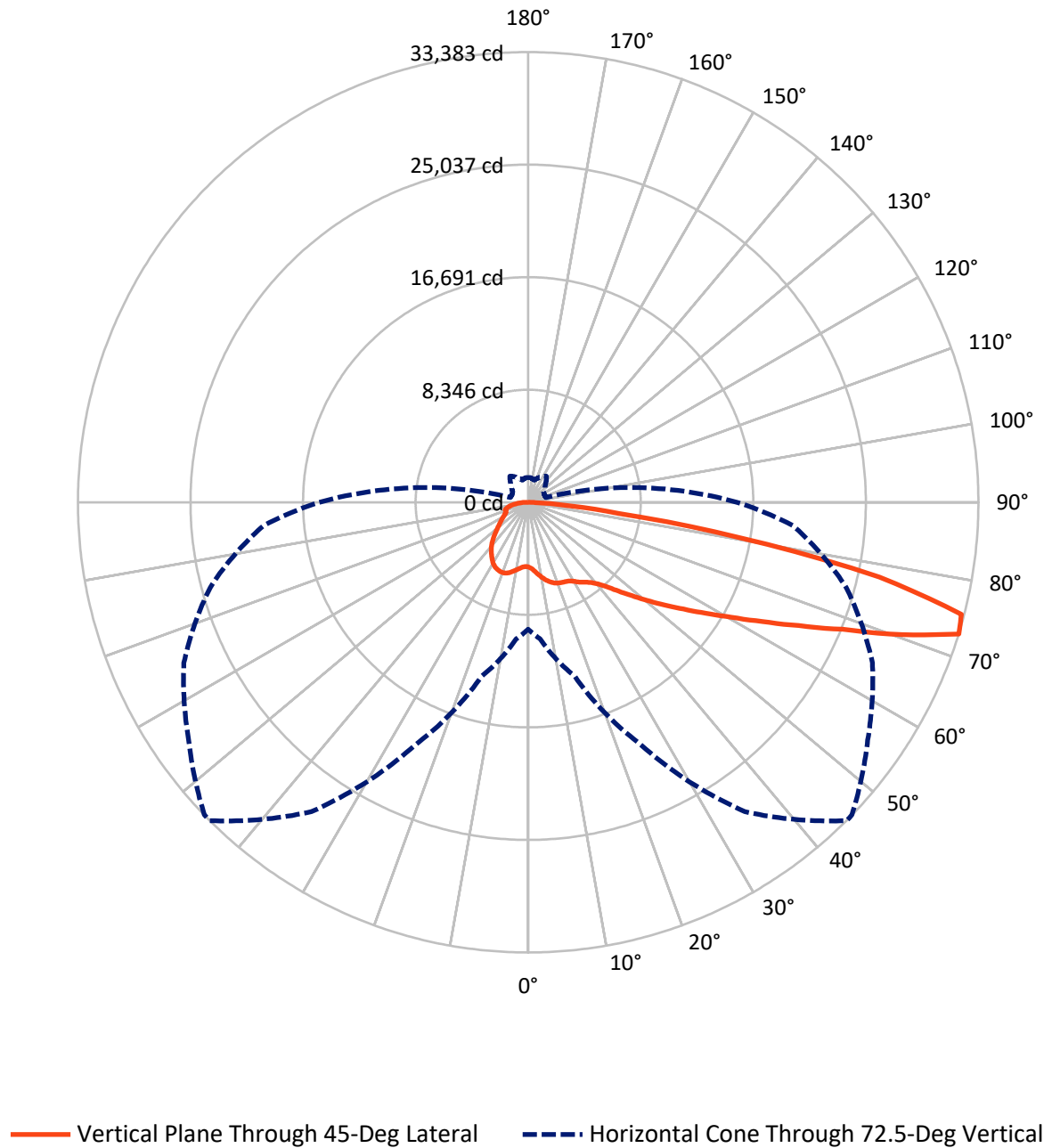


Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10757.6	0.0	10757.6
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	36828.4	0.0	36828.4
	% Fixture	77.4	0.0	77.4
Total	Lumens	47586.0	0.0	47586.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	488.6	1.0
10°-20°	1629.0	3.4
20°-30°	2833.8	6.0
30°-40°	4062.4	8.5
40°-50°	5720.1	12.0
50°-60°	8761.6	18.4
60°-70°	12692.4	26.7
70°-80°	10135.7	21.3
80°-90°	1262.4	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°	47586.0	100.0
0°-180°	47586.0	100.0

Coefficient of Utilization



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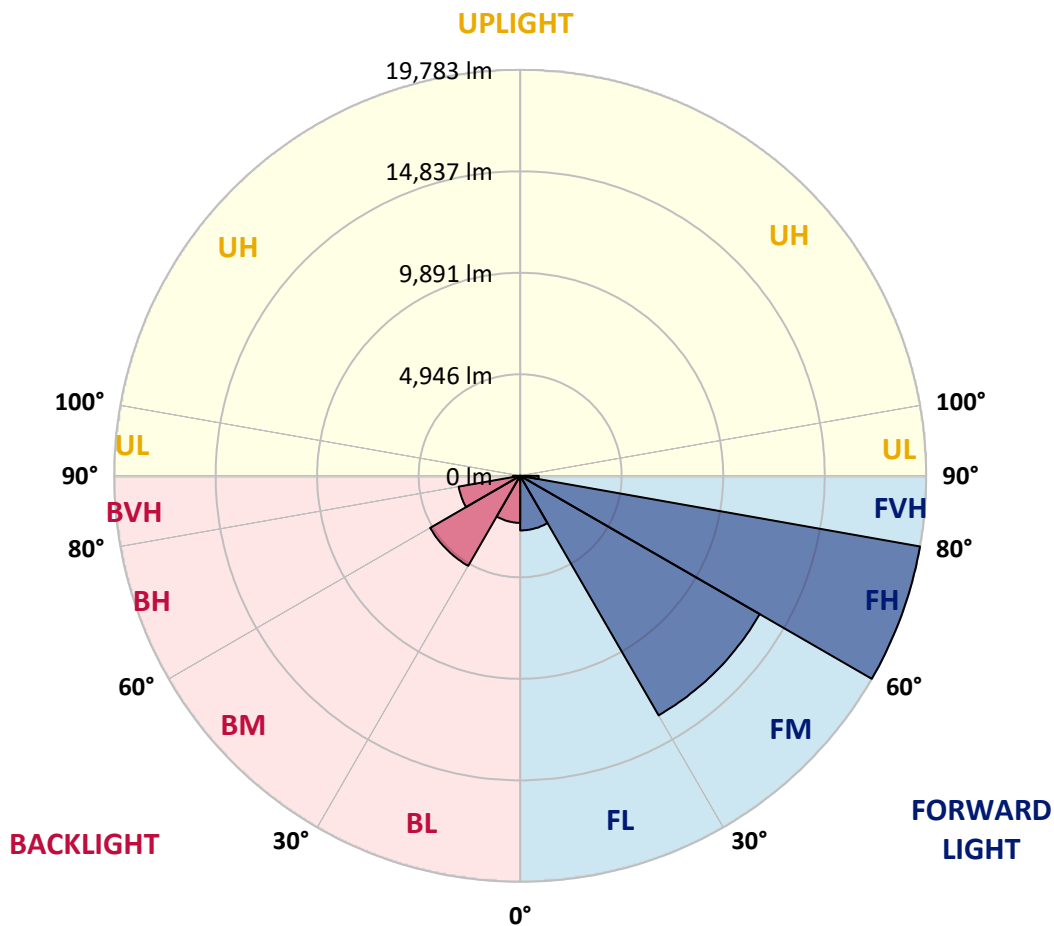
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2661.1	5.6			
FM	(30°-60°)	13478.8	28.3			
FH	(60°-80°)	19782.9	41.6			G5
FVH	(80°-90°)	905.6	1.9			G5
BL	(0°-30°)	2290.4	4.8	B3/2500		
BM	(30°-60°)	5065.3	10.6	B4/8500		
BH	(60°-80°)	3045.2	6.4	B4/5000		G4/5000
BVH	(80°-90°)	356.7	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°	4800.5	4800.5	4800.5	4800.5	4800.5	4800.5	4800.5	4800.5	4800.5	4800.5	4800.5
2.5°	4988.5	5021.1	4991.0	4963.4	4950.9	4918.3	4915.8	4895.8	4883.2	4848.1	4838.1
5°	5337.0	5379.6	5329.4	5274.3	5224.1	5143.9	5133.9	5076.2	5011.1	4935.9	4893.3
7.5°	5730.5	5768.1	5710.5	5627.7	5540.0	5407.1	5404.6	5299.4	5196.6	5068.7	4996.0
10°	6074.0	6124.1	6046.4	5933.6	5823.3	5672.9	5655.3	5535.0	5404.6	5239.2	5128.9
12.5°	6377.3	6412.4	6337.2	6199.3	6071.4	5921.0	5898.5	5765.6	5620.2	5432.2	5291.8
15°	6617.9	6663.0	6562.8	6414.9	6279.5	6131.6	6111.6	5991.2	5845.8	5647.8	5467.3
17.5°	6775.9	6813.5	6710.7	6545.2	6414.9	6292.0	6277.0	6176.7	6048.9	5848.3	5655.3
20°	6836.0	6876.1	6768.3	6600.4	6480.0	6384.8	6377.3	6304.6	6216.8	6033.8	5838.3
22.5°	6896.2	6933.8	6793.4	6617.9	6512.6	6452.5	6450.0	6402.3	6367.2	6216.8	6026.3
25°	7139.3	7149.4	6961.4	6708.2	6557.8	6505.1	6502.6	6500.1	6515.1	6397.3	6229.4
27.5°	7349.9	7347.4	7187.0	6948.8	6715.7	6605.4	6602.9	6628.0	6675.6	6577.8	6439.9
30°	7658.2	7630.7	7440.2	7192.0	6978.9	6808.4	6793.4	6770.8	6808.4	6730.7	6650.5
32.5°	8312.5	8224.8	7916.4	7475.2	7197.0	7066.6	7046.6	6906.2	6921.2	6873.6	6833.5
35°	9250.1	9134.7	8723.6	8011.7	7467.7	7282.2	7272.2	7094.2	7064.1	7021.5	7036.6
37.5°	10365.6	10222.7	9743.9	8788.8	7934.0	7532.9	7517.9	7357.4	7234.6	7189.5	7274.7
40°	11486.1	11305.6	10909.5	9736.4	8620.8	7951.5	7903.9	7660.7	7520.4	7445.2	7625.7
42.5°	12574.1	12423.6	12085.2	10799.2	9468.1	8563.2	8457.9	8041.8	7936.5	7866.3	8192.2
45°	13536.7	13401.3	13153.1	11934.8	10460.8	9395.4	9292.7	8613.3	8580.7	8580.7	9052.0
47.5°	14318.8	14288.7	14025.5	13093.0	11631.5	10343.0	10165.0	9408.0	9495.7	9631.1	10272.8
50°	15186.1	15103.4	14822.6	14233.5	13007.7	11428.5	11283.1	10383.1	10711.5	11082.5	12037.6
52.5°	15983.3	16028.4	15715.1	15421.8	14561.9	12639.2	12383.5	11533.7	12243.2	12857.3	14105.7
55°	16803.0	16805.5	16717.8	16677.7	16191.4	13977.9	13697.1	12917.5	14045.5	14807.6	16517.2
57.5°	17572.6	17577.6	17708.0	18061.4	18081.5	15522.0	15203.7	14617.1	16048.5	16825.6	19004.0
60°	18259.5	18294.5	18650.5	19477.8	19743.5	17291.8	16991.0	16625.0	18119.1	18901.2	21618.5
62.5°	18490.1	18617.9	19410.1	20585.8	21385.4	19462.7	19166.9	18948.8	20295.0	21021.9	23804.5
65°	18099.0	18392.3	19924.0	21500.7	23075.0	22042.2	21748.9	21510.8	22556.1	23240.4	25599.3
67.5°	17138.9	17517.4	19893.9	22460.8	25125.5	25145.6	24872.4	24313.3	24980.2	25243.4	26183.4
70°	14609.6	15176.1	18141.6	22819.3	27479.4	29389.6	29126.4	27687.5	27399.2	26125.8	24539.0
72.5°	9413.0	10175.1	13358.7	19868.8	28003.3	33382.9	33367.9	30733.2	28163.8	24411.1	19680.8
75°	3434.3	3900.6	6206.8	12471.3	23506.2	33179.9	33277.6	30211.8	25709.6	18856.1	12260.7
77.5°	1250.9	1368.7	2025.5	4793.0	14456.7	26622.1	26825.2	24152.9	18299.6	9463.1	4858.2
80°	656.8	722.0	1037.8	1860.0	6194.3	15810.3	16128.7	14353.9	8600.8	2850.2	1456.4
82.5°	363.5	393.6	581.6	1010.2	2790.1	6760.8	6951.3	5670.4	3025.7	1208.3	601.6
85°	195.5	208.1	273.2	551.5	1363.7	2343.8	2396.5	1694.6	1205.8	709.4	290.8
87.5°	57.7	70.2	90.2	175.5	533.9	526.4	539.0	335.9	476.3	358.5	95.3
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4800.5	4800.5	4800.5	4800.5	4800.5	4800.5	4800.5	4800.5	4800.5	4800.5	4800.5
2.5°	4823.1	4815.5	4788.0	4775.4	4760.4	4757.9	4770.4	4772.9	4775.4	4777.9	4788.0
5°	4868.2	4843.1	4818.0	4803.0	4808.0	4810.5	4835.6	4853.1	4865.7	4875.7	4880.7
7.5°	4955.9	4935.9	4893.3	4890.7	4898.3	4920.8	4953.4	4993.5	5016.1	5033.6	5038.6
10°	5086.3	5048.7	4998.5	5006.1	5021.1	5053.7	5121.4	5154.0	5191.6	5224.1	5216.6
12.5°	5219.1	5186.5	5128.9	5133.9	5159.0	5216.6	5281.8	5321.9	5347.0	5372.0	5382.1
15°	5392.1	5334.4	5271.8	5271.8	5316.9	5379.6	5409.7	5442.2	5457.3	5484.9	5494.9
17.5°	5570.1	5494.9	5412.2	5407.1	5462.3	5492.4	5509.9	5514.9	5519.9	5550.0	5560.1
20°	5748.1	5665.3	5547.5	5537.5	5550.0	5545.0	5542.5	5537.5	5545.0	5582.6	5597.7
22.5°	5923.5	5828.3	5665.3	5620.2	5585.1	5537.5	5535.0	5532.5	5537.5	5575.1	5600.2
25°	6129.1	6013.8	5795.7	5660.3	5542.5	5477.3	5484.9	5487.4	5492.4	5522.5	5562.6
27.5°	6352.2	6224.4	5916.0	5647.8	5434.7	5389.6	5377.1	5384.6	5402.1	5449.8	5497.4
30°	6575.3	6424.9	6026.3	5597.7	5299.4	5236.7	5196.6	5214.1	5269.3	5316.9	5369.5
32.5°	6778.4	6628.0	6114.1	5487.4	5126.4	5028.6	4976.0	4998.5	5053.7	5071.2	5133.9
35°	7016.5	6846.0	6151.7	5311.9	4938.4	4788.0	4717.8	4685.2	4712.8	4695.2	4750.4
37.5°	7282.2	7104.2	6146.6	5081.3	4717.8	4544.8	4447.0	4324.2	4266.6	4206.4	4244.0
40°	7675.8	7420.1	6086.5	4803.0	4444.5	4286.6	4111.1	3903.1	3772.7	3654.9	3662.4
42.5°	8212.2	7858.8	5976.2	4497.2	4136.2	3988.3	3750.2	3507.0	3301.4	3105.9	3088.4
45°	9011.9	8432.8	5838.3	4171.3	3802.8	3657.4	3399.2	3126.0	2892.8	2642.2	2612.1
47.5°	10165.0	9204.9	5708.0	3800.3	3451.8	3319.0	3085.9	2832.7	2556.9	2313.8	2286.2
50°	11749.3	10312.9	5587.6	3439.3	3105.9	3005.6	2820.1	2561.9	2283.7	2088.2	2075.6
52.5°	13764.8	11819.5	5537.5	3090.9	2782.5	2744.9	2597.0	2356.4	2093.2	1927.7	1915.2
55°	16078.5	13621.9	5537.5	2757.5	2499.3	2511.8	2409.0	2185.9	1957.8	1809.9	1794.9
57.5°	18439.9	15446.8	5437.2	2449.1	2258.6	2311.3	2246.1	2050.6	1845.0	1692.1	1667.0
60°	20615.8	16976.0	5031.1	2168.4	2045.5	2128.3	2085.6	1917.7	1667.0	1539.2	1519.1
62.5°	22287.9	17838.3	4249.0	1945.3	1870.1	1965.3	1942.8	1742.2	1634.4	1581.8	1564.2
65°	23125.1	17697.9	3248.8	1747.2	1722.2	1870.1	1822.4	1814.9	1729.7	1669.5	1649.5
67.5°	22611.2	16489.7	2356.4	1601.8	1636.9	1782.3	1965.3	1995.4	1837.5	1719.7	1699.6
70°	20357.6	14303.7	1754.8	1464.0	1529.1	1784.8	2241.1	2088.2	1802.4	1664.5	1641.9
72.5°	15486.9	10666.4	1361.2	1318.6	1388.8	1797.4	2363.9	2045.5	1702.1	1840.0	1824.9
75°	8856.5	5855.9	1093.0	1140.6	1213.3	1679.5	2301.2	1935.2	1624.4	1689.6	1689.6
77.5°	3376.6	2251.1	902.4	965.1	975.1	1466.5	2201.0	1927.7	1546.7	1509.1	1376.2
80°	1170.7	879.9	747.0	767.1	754.5	1303.5	2110.7	1677.0	1265.9	1133.1	1095.5
82.5°	478.8	438.7	591.6	566.5	536.5	1012.7	1704.6	1371.2	1035.3	915.0	905.0
85°	208.1	278.3	391.1	343.4	310.8	701.9	1366.2	1160.6	874.9	754.5	752.0
87.5°	42.6	105.3	165.4	155.4	160.4	468.8	970.1	824.7	619.2	463.8	363.5
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)