

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: P953081

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953081
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
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-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44089 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - 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



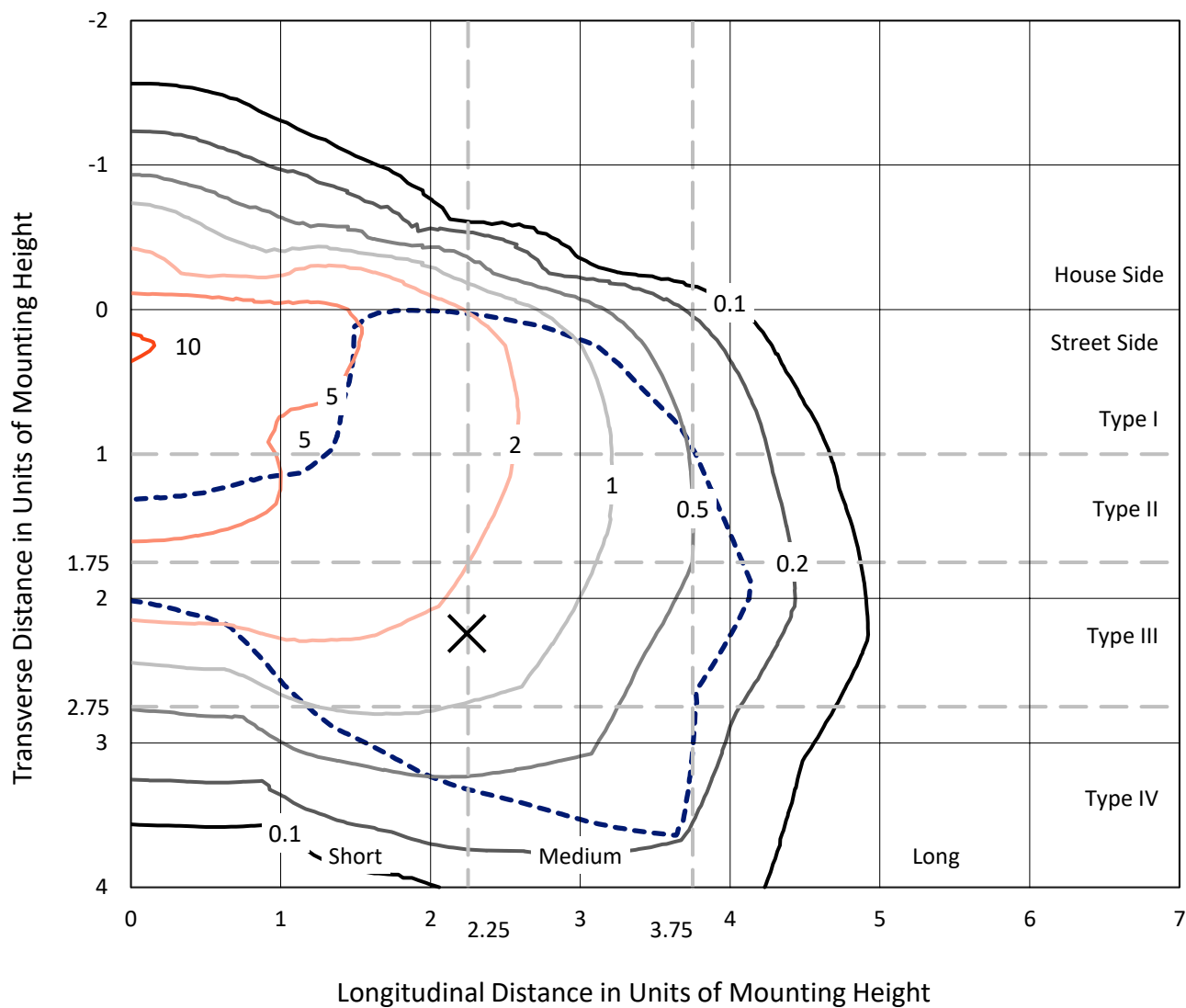
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

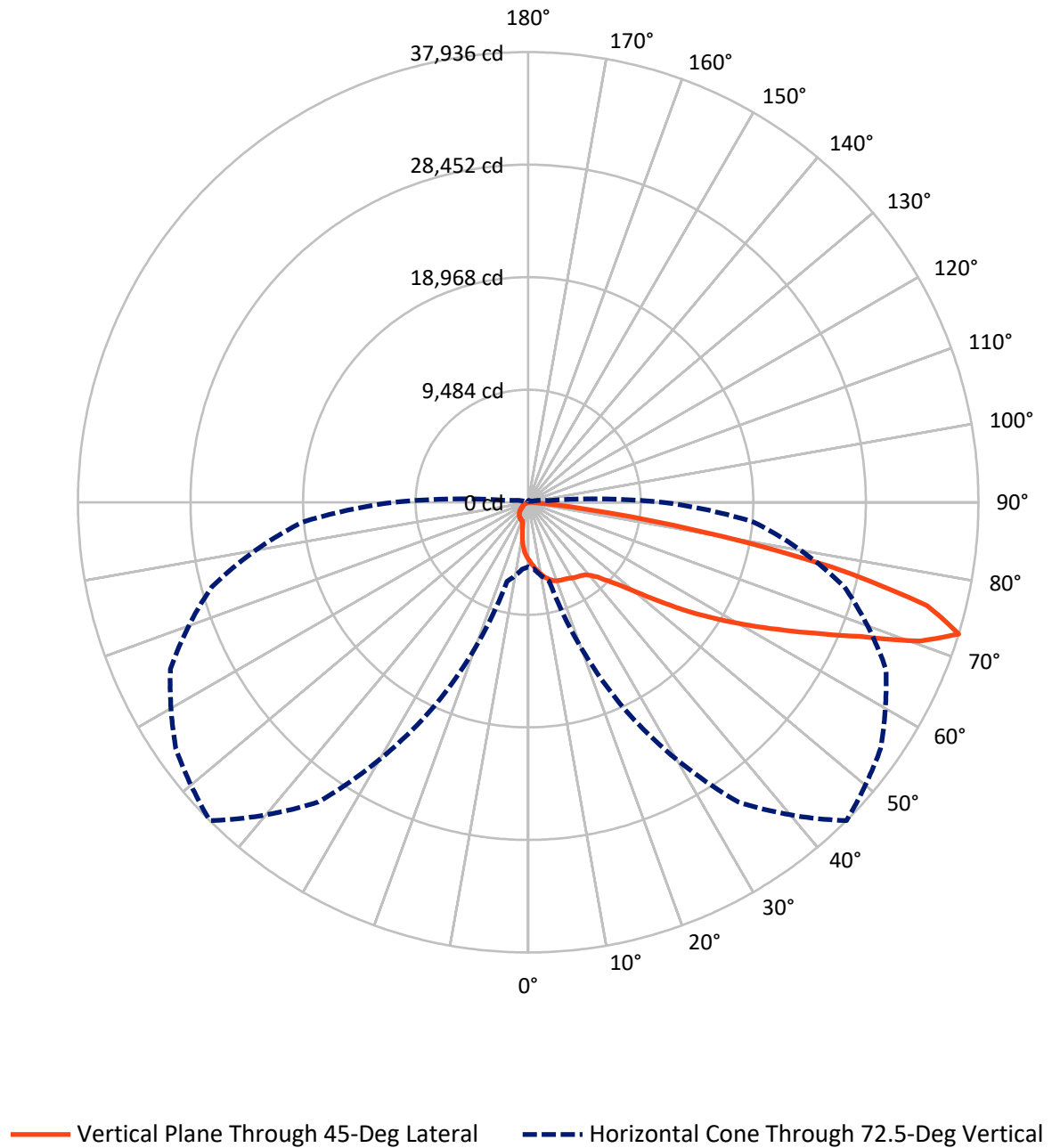
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 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	4632.5	0.0	4632.5
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	39456.5	0.0	39456.5
	% Fixture	89.5	0.0	89.5
Total	Lumens	44089.0	0.0	44089.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	455.1	1.0
10°-20°	1330.0	3.0
20°-30°	2184.1	5.0
30°-40°	3097.6	7.0
40°-50°	5120.0	11.6
50°-60°	9197.5	20.9
60°-70°	12771.2	29.0
70°-80°	9263.8	21.0
80°-90°	669.7	1.5
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°	44089.0	100.0
0°-180°	44089.0	100.0

Coefficient of Utilization



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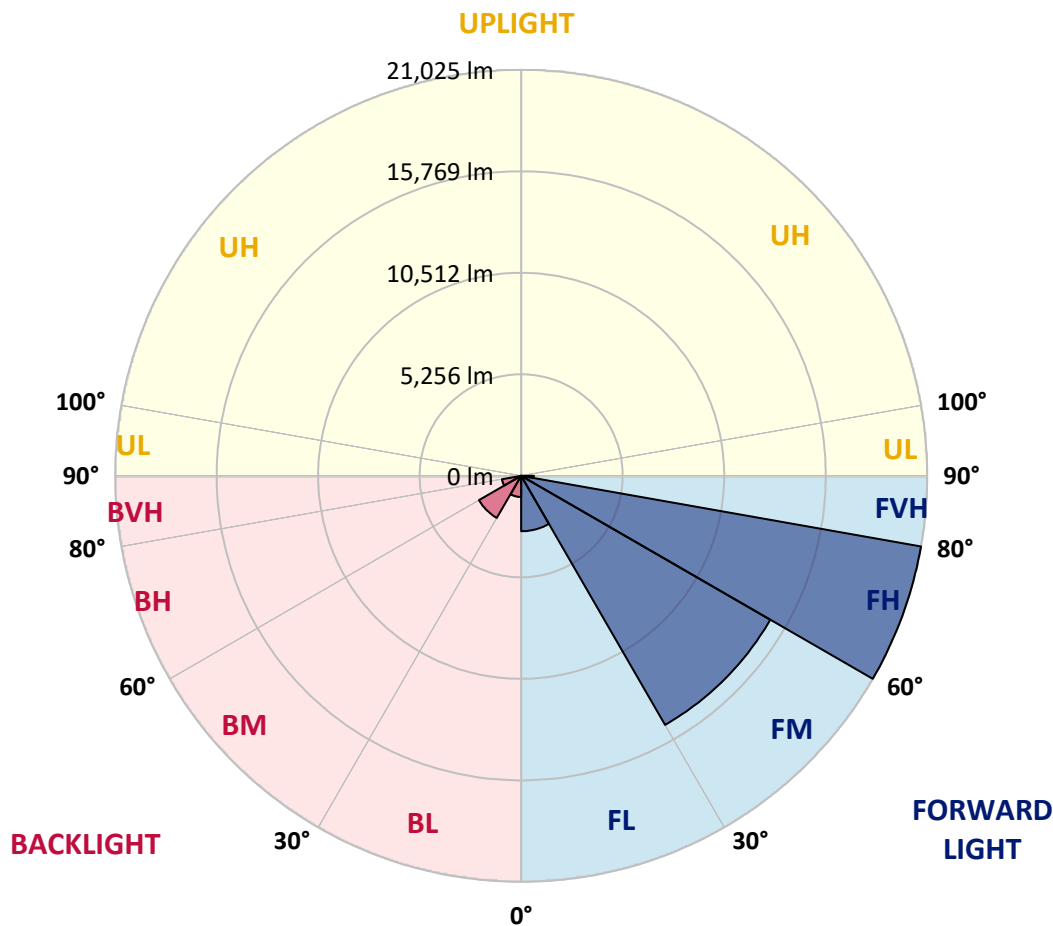
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2872.0	6.5			
FM	(30°-60°)	14895.6	33.8			
FH	(60°-80°)	21024.8	47.7			G5
FVH	(80°-90°)	664.1	1.5			G4/750
BL	(0°-30°)	1097.3	2.5	B3/2500		
BM	(30°-60°)	2519.4	5.7	B3/5000		
BH	(60°-80°)	1010.2	2.3	B3/2500		G3/2500
BVH	(80°-90°)	5.6	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-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	4830.0	4830.0	4830.0	4830.0	4830.0	4830.0	4830.0	4830.0	4830.0	4830.0	4830.0
2.5°	5275.4	5284.5	5278.4	5242.3	5182.1	5149.0	5131.0	5070.8	5031.7	4962.5	4890.2
5°	5759.9	5796.1	5775.0	5702.8	5588.4	5507.2	5483.1	5359.7	5248.3	5118.9	4968.5
7.5°	6274.5	6292.6	6253.5	6160.2	6006.7	5868.3	5847.2	5675.7	5498.1	5299.5	5094.9
10°	6719.9	6741.0	6680.8	6545.4	6370.8	6199.3	6169.2	5979.6	5769.0	5525.2	5263.4
12.5°	7093.1	7114.2	7035.9	6873.4	6680.8	6503.3	6473.2	6274.5	6042.8	5772.0	5447.0
15°	7376.0	7415.1	7309.8	7135.2	6927.6	6750.0	6735.0	6539.4	6313.7	6012.7	5666.6
17.5°	7541.5	7580.6	7481.3	7270.6	7093.1	6942.6	6924.6	6762.1	6551.4	6262.5	5880.3
20°	7568.6	7604.7	7499.4	7315.8	7168.3	7048.0	7038.9	6921.6	6768.1	6491.2	6112.0
22.5°	7487.3	7532.5	7436.2	7288.7	7186.4	7123.2	7111.1	7044.9	6957.7	6722.9	6328.7
25°	7403.1	7439.2	7366.9	7237.5	7183.4	7177.4	7186.4	7174.3	7156.3	6957.7	6581.5
27.5°	7397.0	7436.2	7354.9	7231.5	7201.4	7264.6	7273.7	7330.8	7345.9	7171.3	6825.3
30°	7448.2	7475.3	7397.0	7267.6	7252.6	7397.0	7400.0	7502.4	7526.4	7351.9	7066.0
32.5°	7559.5	7589.6	7511.4	7321.8	7300.7	7502.4	7511.4	7646.8	7685.9	7544.5	7318.8
35°	7821.4	7857.5	7767.2	7472.3	7397.0	7601.7	7628.8	7788.3	7866.5	7749.1	7580.6
37.5°	8474.4	8369.1	8245.7	7776.2	7616.7	7758.2	7803.3	7989.9	8128.3	7992.9	7893.6
40°	10096.4	9765.4	9380.2	8293.8	8001.9	8092.2	8128.3	8314.9	8504.5	8372.1	8323.9
42.5°	12531.0	12139.8	11519.9	9485.5	8582.7	8627.9	8655.0	8817.5	9085.3	8980.0	8992.0
45°	14700.8	14559.3	13927.4	11519.9	9669.1	9446.4	9479.5	9563.8	9958.0	9918.9	9997.1
47.5°	16368.0	16286.7	15799.2	13855.2	11504.8	10448.5	10541.8	10581.0	11149.7	11288.2	11498.8
50°	17650.0	17619.9	17183.5	15931.6	13903.3	11926.1	11959.2	11875.0	12726.6	13069.7	13470.0
52.5°	18859.7	18962.1	18640.1	17860.6	16464.3	13861.2	13855.2	13457.9	14607.5	15125.1	15808.2
55°	19952.1	19988.3	20021.4	19828.8	19040.3	16064.0	16006.9	15356.8	16789.3	17325.0	18065.3
57.5°	20978.3	20993.4	21288.3	21682.5	21721.7	18429.4	18324.1	17544.6	19172.7	19554.9	20009.3
60°	21667.5	21736.7	22359.6	23455.1	23933.5	20870.0	20812.8	20018.3	21598.3	21775.8	21691.6
62.5°	20674.4	21095.7	22666.6	24839.4	26022.0	23575.4	23548.3	22802.0	24150.2	24005.8	23283.5
65°	16735.1	17448.3	20210.9	25775.3	28071.4	26596.8	26636.0	25841.5	26771.4	26301.9	24577.5
67.5°	11706.5	12458.8	15727.0	25850.5	30361.6	30144.9	30370.6	29124.7	29555.1	28501.8	24884.5
70°	8095.2	8483.4	10611.0	24231.5	32146.1	35032.1	35026.1	33157.3	32323.7	29503.9	23319.6
72.5°	5444.0	5645.6	6891.5	19223.9	30834.0	37936.2	37761.6	36238.9	33256.6	27592.9	19052.3
75°	2296.2	2443.6	3189.9	10803.6	24394.0	34707.1	34234.6	32025.7	29549.0	21727.7	11887.0
77.5°	728.3	791.5	1257.9	3867.0	13436.9	26088.3	25588.7	20000.3	19804.7	10899.9	4345.5
80°	346.1	403.3	707.2	1552.8	5287.5	14189.2	14120.0	9073.3	8519.5	2943.2	872.7
82.5°	150.5	177.6	391.2	830.6	2365.4	5061.8	5164.1	3087.6	2555.0	1116.5	267.8
85°	48.1	63.2	180.6	382.2	999.1	1257.9	1242.9	734.3	1029.2	607.9	93.3
87.5°	0.0	0.0	60.2	87.3	102.3	72.2	81.3	63.2	285.9	168.5	33.1
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°	4830.0	4830.0	4830.0	4830.0	4830.0	4830.0	4830.0	4830.0	4830.0	4830.0	4830.0
2.5°	4854.1	4806.0	4721.7	4643.5	4574.2	4505.0	4462.9	4402.7	4396.7	4396.7	4411.7
5°	4887.2	4809.0	4658.5	4499.0	4315.4	4140.9	3966.4	3797.8	3743.7	3704.5	3722.6
7.5°	4983.5	4860.1	4622.4	4318.5	3969.4	3587.2	3319.3	3030.4	2919.1	2858.9	2867.9
10°	5122.0	4953.4	4592.3	4059.6	3493.9	2973.3	2591.1	2278.1	2157.7	2106.6	2106.6
12.5°	5275.4	5067.8	4538.1	3737.6	2973.3	2350.3	1977.2	1832.7	1814.7	1814.7	1814.7
15°	5459.0	5206.2	4444.8	3358.5	2428.6	1859.8	1727.4	1733.4	1751.5	1763.5	1763.5
17.5°	5648.6	5353.7	4297.4	2934.1	1947.1	1673.2	1676.2	1685.2	1700.3	1712.3	1712.3
20°	5853.2	5501.1	4101.8	2482.7	1670.2	1619.0	1628.1	1637.1	1649.1	1655.2	1658.2
22.5°	6072.9	5639.6	3870.1	2040.4	1576.9	1573.9	1576.9	1585.9	1601.0	1601.0	1607.0
25°	6307.6	5793.0	3605.2	1718.4	1528.8	1528.8	1534.8	1540.8	1552.8	1552.8	1555.8
27.5°	6548.4	5934.5	3325.4	1549.8	1486.6	1483.6	1483.6	1492.6	1498.7	1501.7	1504.7
30°	6813.2	6100.0	3045.5	1513.7	1453.5	1438.5	1429.5	1435.5	1441.5	1444.5	1450.5
32.5°	7084.1	6259.5	2795.7	1528.8	1420.4	1393.3	1363.2	1357.2	1357.2	1369.3	1378.3
35°	7385.0	6434.0	2603.1	1579.9	1402.4	1327.1	1279.0	1251.9	1254.9	1273.0	1282.0
37.5°	7746.1	6644.7	2461.7	1625.1	1390.3	1251.9	1173.7	1140.6	1119.5	1140.6	1134.5
40°	8218.6	6954.7	2359.3	1661.2	1375.3	1164.6	1059.3	1005.1	966.0	978.0	972.0
42.5°	8913.8	7442.2	2320.2	1664.2	1342.2	1062.3	941.9	869.7	812.5	815.5	803.5
45°	9888.8	8212.6	2521.9	1625.1	1270.0	951.0	818.5	722.2	686.1	677.1	665.1
47.5°	11225.0	9335.1	2988.3	1543.8	1164.6	842.6	698.2	616.9	589.8	574.8	565.8
50°	13015.5	10776.6	3505.9	1453.5	1059.3	740.3	598.9	547.7	529.6	514.6	511.6
52.5°	15092.0	12239.1	3930.2	1363.2	954.0	650.0	535.7	505.6	490.5	478.5	475.5
55°	16996.9	13247.3	3906.2	1266.9	851.7	577.8	490.5	472.5	454.4	442.4	436.4
57.5°	18182.6	13388.7	3220.0	1161.6	734.3	520.6	448.4	436.4	415.3	400.2	397.2
60°	18727.3	12582.2	2257.0	1023.2	616.9	466.5	403.3	397.2	370.2	349.1	343.1
62.5°	18826.6	11083.5	1504.7	851.7	514.6	415.3	358.1	349.1	313.0	276.9	258.8
65°	18423.4	8940.8	1041.2	665.1	439.4	361.1	307.0	288.9	249.8	213.7	201.6
67.5°	17147.4	6277.6	725.3	478.5	373.2	285.9	243.8	237.7	207.6	177.6	168.5
70°	14809.1	3578.1	484.5	358.1	294.9	195.6	192.6	198.6	168.5	144.4	132.4
72.5°	11354.4	1637.1	300.9	261.8	201.6	132.4	153.5	156.5	129.4	108.3	96.3
75°	6683.8	701.2	189.6	168.5	102.3	87.3	111.3	114.4	87.3	69.2	60.2
77.5°	2275.1	264.8	120.4	99.3	51.2	48.1	72.2	72.2	48.1	27.1	21.1
80°	517.6	99.3	60.2	39.1	24.1	21.1	24.1	21.1	12.0	3.0	0.0
82.5°	147.5	39.1	24.1	15.0	9.0	9.0	3.0	0.0	0.0	0.0	0.0
85°	42.1	18.1	6.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.1	3.0	0.0	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	0.0

(END OF REPORT)