

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: P957002

Luminaire Tested: **GALN-SB9C-727-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957002
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB9C-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53570 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

Input Watts (W): 449.8
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

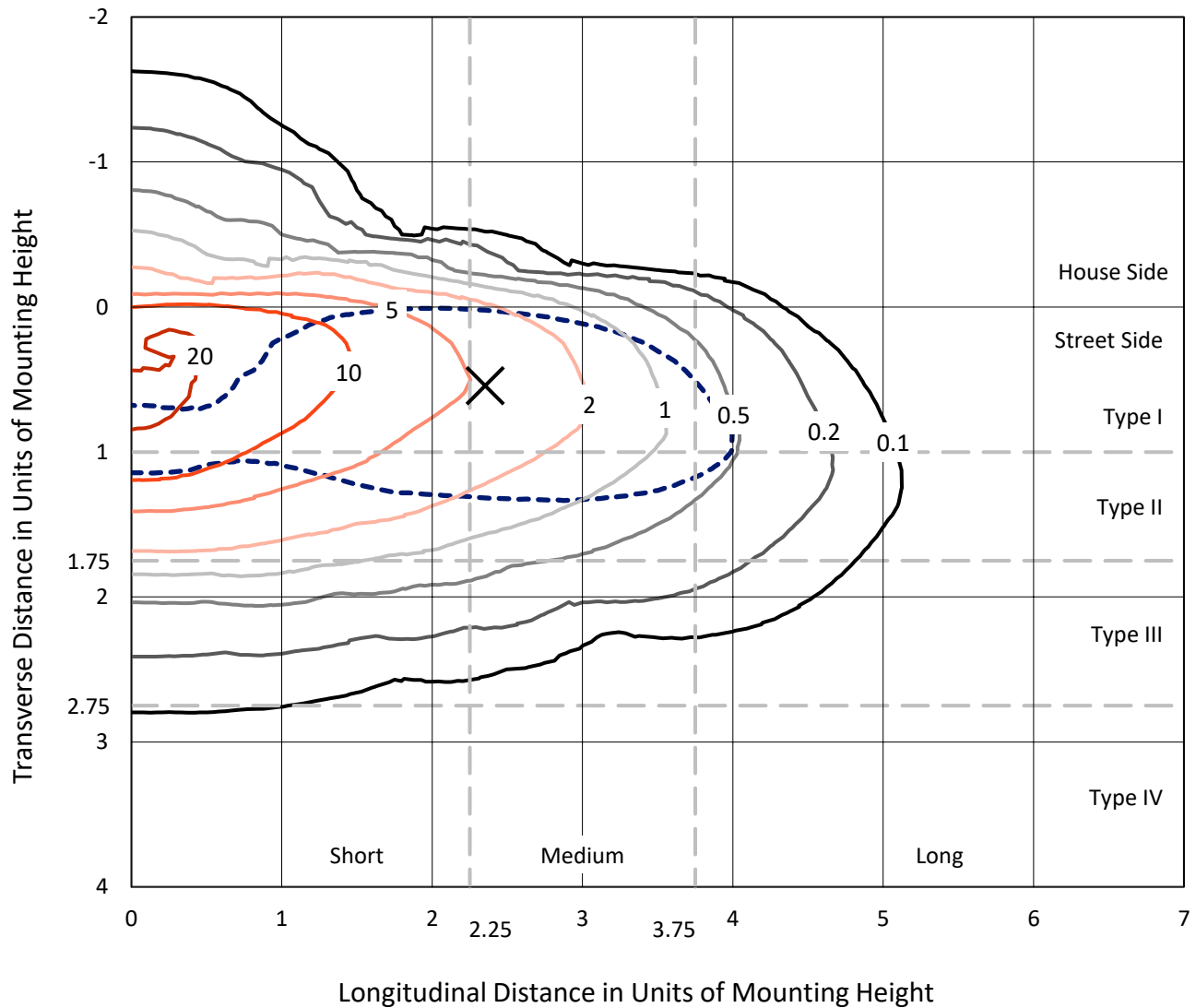


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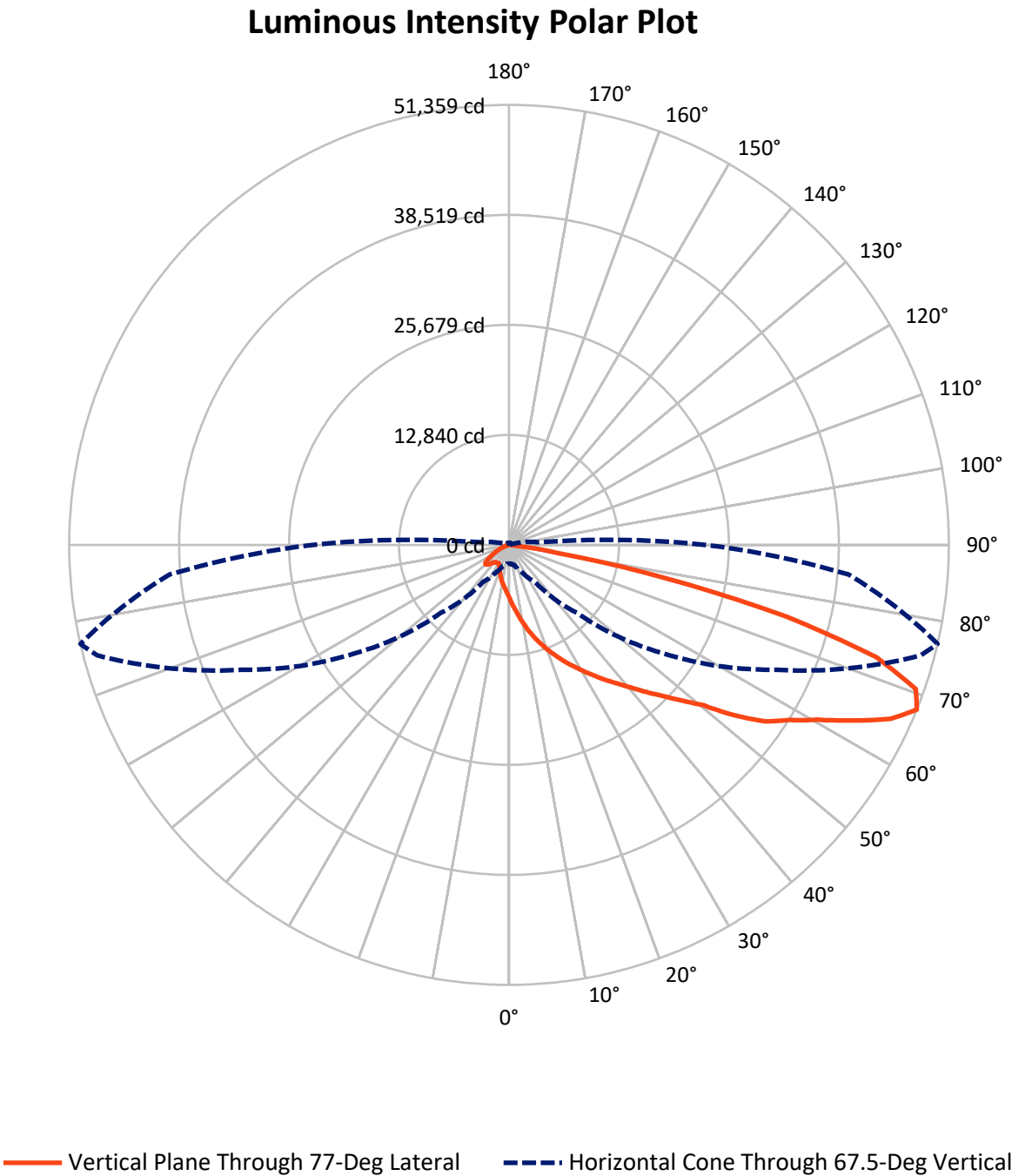
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.1 fc
Type II - Medium - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3941.2	0.0	3941.2
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	49628.8	0.0	49628.8
	% Fixture	92.6	0.0	92.6
Total	Lumens	53570.0	0.0	53570.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	630.5	1.2
10°-20°	2207.9	4.1
20°-30°	4260.8	8.0
30°-40°	7396.9	13.8
40°-50°	10739.9	20.0
50°-60°	12333.4	23.0
60°-70°	10707.7	20.0
70°-80°	5043.4	9.4
80°-90°	249.4	0.5
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°	53570.0	100.0
0°-180°	53570.0	100.0

Coefficient of Utilization



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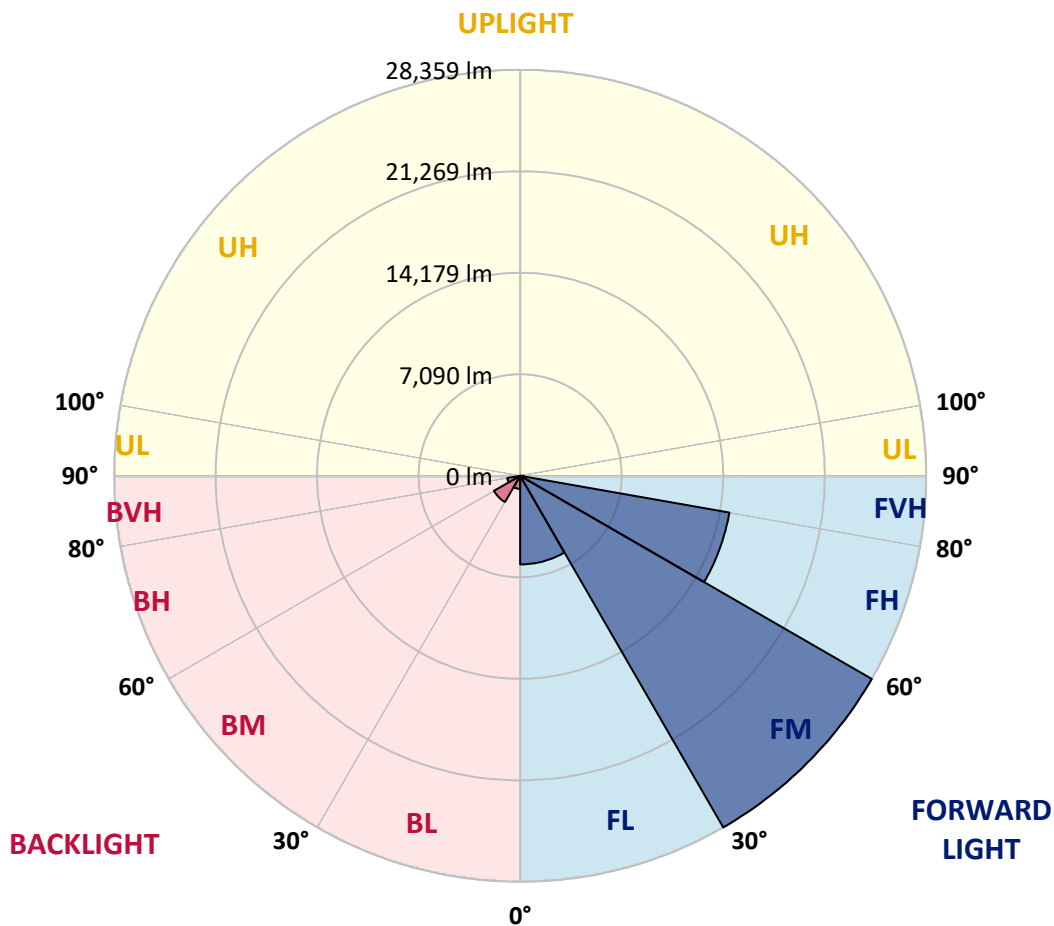
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6186.8	11.5			
FM	(30°-60°)	28358.5	52.9			
FH	(60°-80°)	14838.7	27.7			G5
FVH	(80°-90°)	244.8	0.5			G3/500
BL	(0°-30°)	912.4	1.7	B2/1000		
BM	(30°-60°)	2111.7	3.9	B2/2500		
BH	(60°-80°)	912.4	1.7	B2/1000		G2/1000
BVH	(80°-90°)	4.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	6177.4	6177.4	6177.4	6177.4	6177.4	6177.4	6177.4	6177.4	6177.4	6177.4	6177.4
2.5°	8552.6	8605.8	8529.3	8382.9	8163.4	8020.3	7671.0	7341.7	6975.8	6859.4	6493.4
5°	10425.4	10472.0	10385.5	10225.8	9933.1	9653.7	9194.6	8506.0	7790.8	7561.3	6912.6
7.5°	11812.6	11839.2	11805.9	11659.6	11380.1	11064.1	10551.8	9736.8	8675.6	8422.8	7428.2
10°	12810.6	12897.0	12887.1	12830.5	12644.2	12388.1	11842.5	10914.4	9667.0	9341.0	8010.3
12.5°	13472.5	13569.0	13625.6	13752.0	13742.0	13579.0	13100.0	12118.6	10654.9	10272.4	8665.7
15°	13665.5	13768.6	13984.8	14277.6	14537.0	14620.2	14284.2	13299.6	11742.7	11253.7	9337.6
17.5°	13555.7	13715.4	13974.8	14437.2	15006.1	15382.0	15345.4	14440.6	12730.7	12171.9	9996.3
20°	13798.5	13951.6	14154.5	14543.7	15205.7	15887.6	16160.4	15531.7	13712.1	13126.6	10688.2
22.5°	15142.5	15115.9	15135.8	15199.0	15594.9	16270.2	16832.4	16523.0	14683.4	14084.6	11420.1
25°	17271.5	17151.7	16948.8	16606.2	16506.4	16832.4	17417.8	17401.2	15708.0	15066.0	12168.5
27.5°	19713.2	19693.2	19217.5	18392.5	17926.8	17800.4	18079.8	18256.1	16722.6	16037.3	12920.3
30°	22051.7	22104.9	21462.9	20544.8	19689.9	19194.2	18941.4	19067.8	17753.8	17085.2	13695.4
32.5°	24087.6	24144.1	23445.5	22371.1	21313.2	20714.4	20182.2	19869.5	18878.2	18149.7	14547.0
35°	25807.4	25863.9	25062.2	23874.7	22747.0	22204.7	21602.6	20747.7	20009.2	19330.6	15495.1
37.5°	27344.3	27327.6	26253.2	25055.6	23947.9	23518.7	23202.7	21828.8	21173.5	20518.2	16546.3
40°	28252.4	28322.3	27404.1	26083.5	25009.0	24696.3	24676.4	23169.4	22517.4	21882.1	17697.3
42.5°	28518.5	28641.6	27976.3	26891.9	25917.2	25577.9	26100.1	24619.8	24080.9	23462.2	18997.9
45°	28039.5	28159.3	27856.6	27104.8	26535.9	26316.4	27324.3	26123.4	25750.8	25138.8	20465.0
47.5°	26642.4	26792.1	26865.2	26705.6	26698.9	26921.8	28422.1	27706.9	27733.5	27108.1	22164.8
50°	23937.9	24190.7	24862.7	25428.2	26303.1	27400.8	29489.9	29423.4	29968.9	29430.0	24380.3
52.5°	19021.2	19380.5	21695.8	23242.6	25208.6	27311.0	30664.2	32177.7	33890.9	33102.5	27503.9
55°	15285.5	15285.5	17168.3	20062.4	23073.0	26718.9	31176.5	33967.4	36562.1	36375.9	29702.8
57.5°	12461.3	12611.0	13811.8	16370.0	19982.6	25308.4	31492.5	35091.8	38714.4	38578.0	31851.7
60°	7691.0	8013.7	10282.4	12807.2	16466.4	22796.9	31292.9	36229.5	41325.8	41435.5	34439.8
62.5°	4331.2	4450.9	5462.2	9214.6	12803.9	19420.4	29766.0	36864.9	44665.6	45131.3	37107.7
65°	2990.6	3050.4	3439.7	5735.0	8875.2	15461.8	26782.1	36469.0	48012.1	48953.6	39369.8
67.5°	2172.2	2202.2	2445.0	3502.9	5265.9	11210.5	22104.9	34473.1	49785.2	51358.6	39802.2
70°	1669.9	1689.9	1866.2	2302.0	3110.3	6919.2	16053.9	30504.5	48501.1	50380.6	37586.7
72.5°	1357.2	1377.2	1513.6	1703.2	2062.5	4091.7	9730.2	24772.8	42832.7	44861.9	31998.1
75°	1144.3	1170.9	1294.0	1417.1	1616.7	2628.0	4564.0	17251.5	32211.0	33541.6	22251.3
77.5°	635.4	585.5	1051.2	1174.3	1363.9	1663.3	2135.6	10152.6	18039.9	18409.1	9873.2
80°	395.9	409.2	835.0	944.7	1047.9	838.3	978.0	3908.7	6253.9	5941.2	1912.8
82.5°	23.3	53.2	642.0	681.9	718.5	359.3	369.2	1327.3	1506.9	1383.8	339.3
85°	0.0	0.0	292.7	236.2	249.5	103.1	106.4	309.4	202.9	219.6	66.5
87.5°	0.0	0.0	0.0	6.7	0.0	10.0	20.0	26.6	10.0	13.3	23.3
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°	6177.4	6177.4	6177.4	6177.4	6177.4	6177.4	6177.4	6177.4	6177.4	6177.4	6177.4
2.5°	6260.6	6027.7	5555.3	5093.0	4717.1	4367.8	4118.3	3882.1	3762.3	3755.7	3749.0
5°	6450.2	5961.2	5016.4	4181.5	3509.5	2970.6	2621.3	2371.8	2245.4	2202.2	2195.5
7.5°	6716.3	5981.1	4544.1	3383.1	2591.4	2129.0	1929.4	1849.6	1823.0	1793.0	1786.4
10°	7052.3	6027.7	4121.6	2724.4	2042.5	1809.6	1729.8	1696.5	1676.6	1656.6	1650.0
12.5°	7428.2	6071.0	3702.5	2262.1	1796.3	1676.6	1620.0	1580.1	1553.5	1530.2	1523.6
15°	7794.1	6097.6	3266.7	1939.4	1669.9	1573.5	1513.6	1470.3	1433.7	1407.1	1403.8
17.5°	8156.7	6134.2	2857.5	1746.4	1566.8	1470.3	1410.5	1357.2	1327.3	1297.4	1294.0
20°	8559.2	6127.5	2471.6	1610.1	1463.7	1367.2	1304.0	1254.1	1224.2	1190.9	1187.6
22.5°	8931.8	6094.2	2132.3	1493.6	1357.2	1264.1	1194.2	1144.3	1114.4	1087.8	1084.5
25°	9360.9	6067.6	1849.6	1387.2	1257.4	1164.3	1087.8	1041.2	1007.9	984.7	981.3
27.5°	9773.4	6027.7	1643.3	1290.7	1161.0	1071.1	998.0	944.7	914.8	898.2	898.2
30°	10179.3	6017.7	1566.8	1197.6	1074.5	984.7	911.5	861.6	838.3	831.6	828.3
32.5°	10668.3	6044.3	1600.1	1164.3	994.6	904.8	835.0	798.4	775.1	775.1	775.1
35°	11190.5	6037.7	1650.0	1194.2	941.4	825.0	771.8	748.5	725.2	725.2	725.2
37.5°	11845.9	6047.7	1689.9	1244.1	921.5	758.5	728.5	698.6	685.3	685.3	685.3
40°	12823.9	6377.0	1669.9	1287.4	914.8	711.9	652.0	642.0	632.0	632.0	632.0
42.5°	14021.4	7092.2	1696.5	1290.7	911.5	678.6	598.8	618.7	595.5	592.1	588.8
45°	15332.1	7874.0	1866.2	1220.8	908.1	662.0	572.2	595.5	558.9	558.9	558.9
47.5°	16632.8	8649.0	2039.2	1121.0	898.2	658.7	548.9	535.6	525.6	528.9	528.9
50°	18425.8	9281.1	2105.7	984.7	874.9	652.0	505.6	509.0	502.3	509.0	509.0
52.5°	20378.5	9414.1	2025.9	831.6	808.4	632.0	475.7	489.0	485.7	492.3	492.3
55°	21596.0	9271.1	1673.3	691.9	705.2	552.2	445.8	472.4	472.4	472.4	472.4
57.5°	22853.4	8662.3	1187.6	562.2	585.5	452.4	419.1	455.7	452.4	449.1	449.1
60°	23758.2	7677.7	781.7	462.4	465.7	372.6	389.2	429.1	425.8	409.2	409.2
62.5°	24433.5	6589.9	502.3	392.5	355.9	336.0	355.9	389.2	375.9	339.3	332.7
65°	24357.0	5083.0	385.9	336.0	292.7	292.7	309.4	339.3	299.4	239.5	232.9
67.5°	22936.6	3439.7	319.3	282.8	246.2	242.8	256.1	282.8	256.1	202.9	196.3
70°	20398.4	2248.7	256.1	219.6	196.3	179.6	206.2	242.8	216.2	163.0	156.3
72.5°	16556.3	1370.5	192.9	159.7	143.0	116.4	163.0	199.6	173.0	119.8	113.1
75°	10711.5	698.6	133.1	103.1	76.5	69.9	119.8	149.7	119.8	73.2	63.2
77.5°	4098.3	292.7	73.2	46.6	39.9	33.3	66.5	89.8	49.9	16.6	13.3
80°	788.4	123.1	36.6	23.3	20.0	13.3	10.0	6.7	0.0	0.0	0.0
82.5°	136.4	39.9	13.3	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	46.6	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.6	0.0	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)