

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: P955574

Luminaire Tested: **GALN-SB8C-727-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955574
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-SB8C-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 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: 47558 lumens
Efficiency: N/A
Efficacy: 119.0 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): 399.8
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

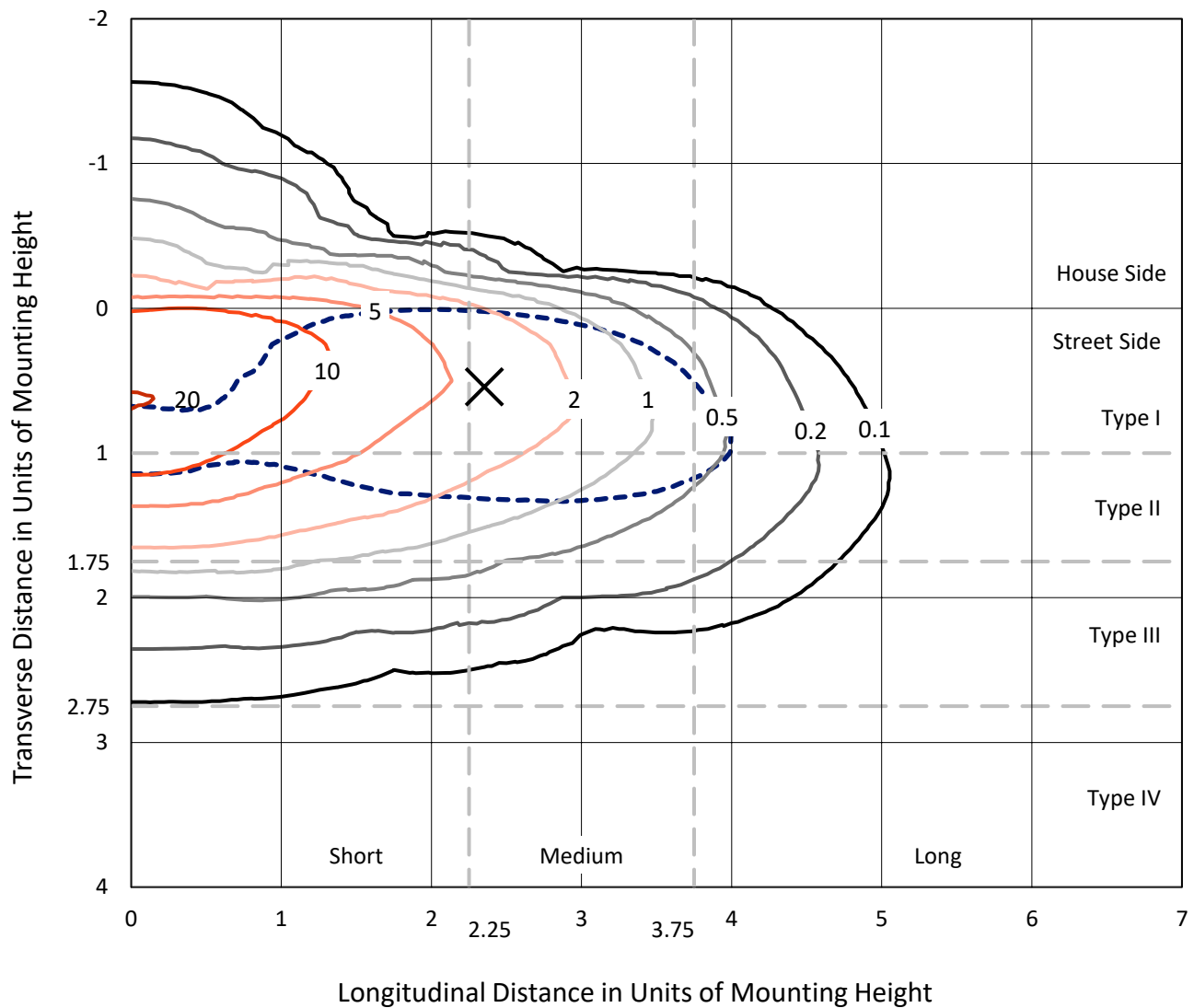


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Iso-Footcandle Lines of Horizontal Illumination

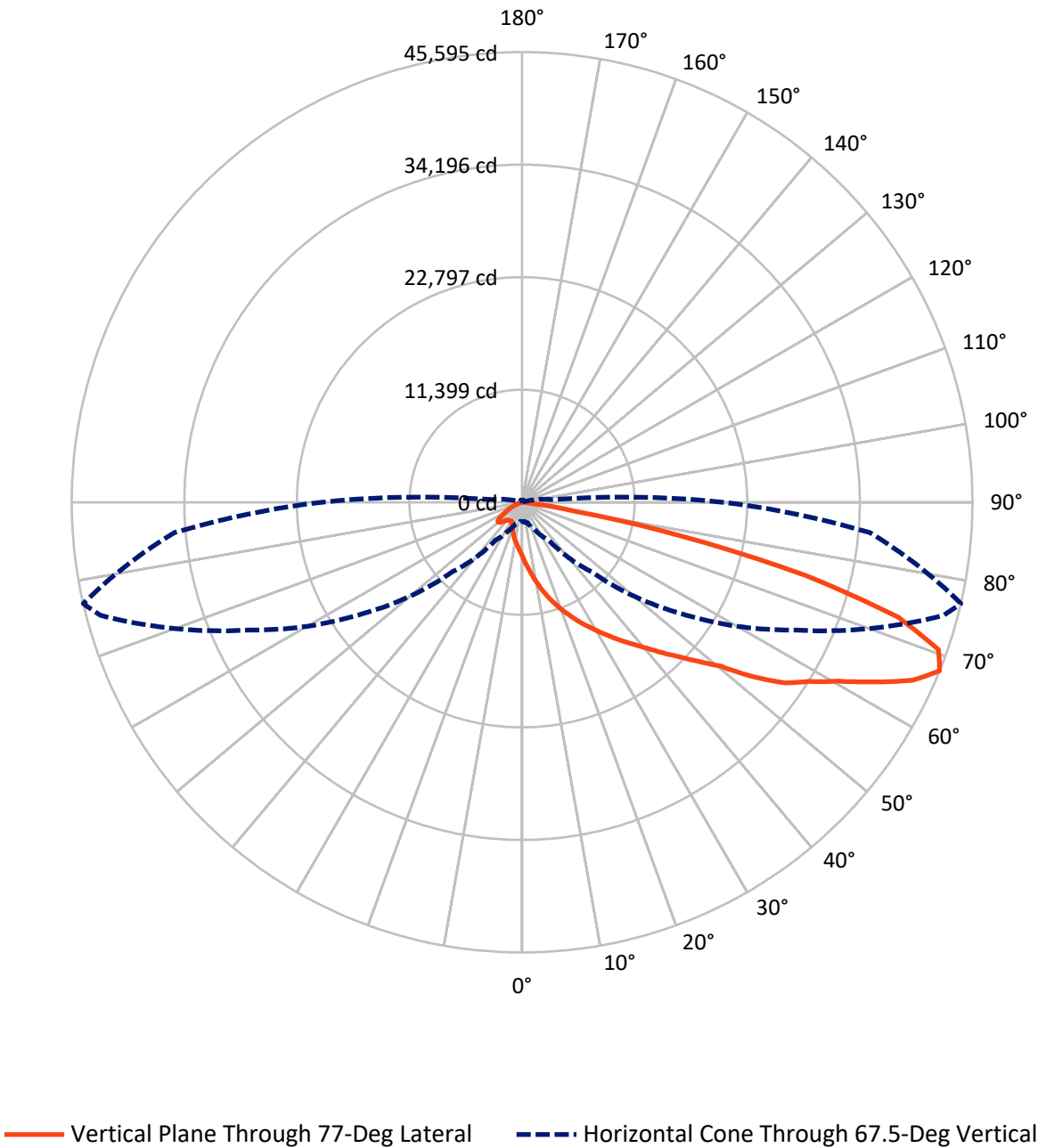
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.5 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3498.9	0.0	3498.9
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	44059.1	0.0	44059.1
	% Fixture	92.6	0.0	92.6
Total	Lumens	47558.0	0.0	47558.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	559.7	1.2
10°-20°	1960.2	4.1
20°-30°	3782.6	8.0
30°-40°	6566.8	13.8
40°-50°	9534.6	20.0
50°-60°	10949.3	23.0
60°-70°	9506.0	20.0
70°-80°	4477.4	9.4
80°-90°	221.4	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°	47558.0	100.0
0°-180°	47558.0	100.0

Coefficient of Utilization



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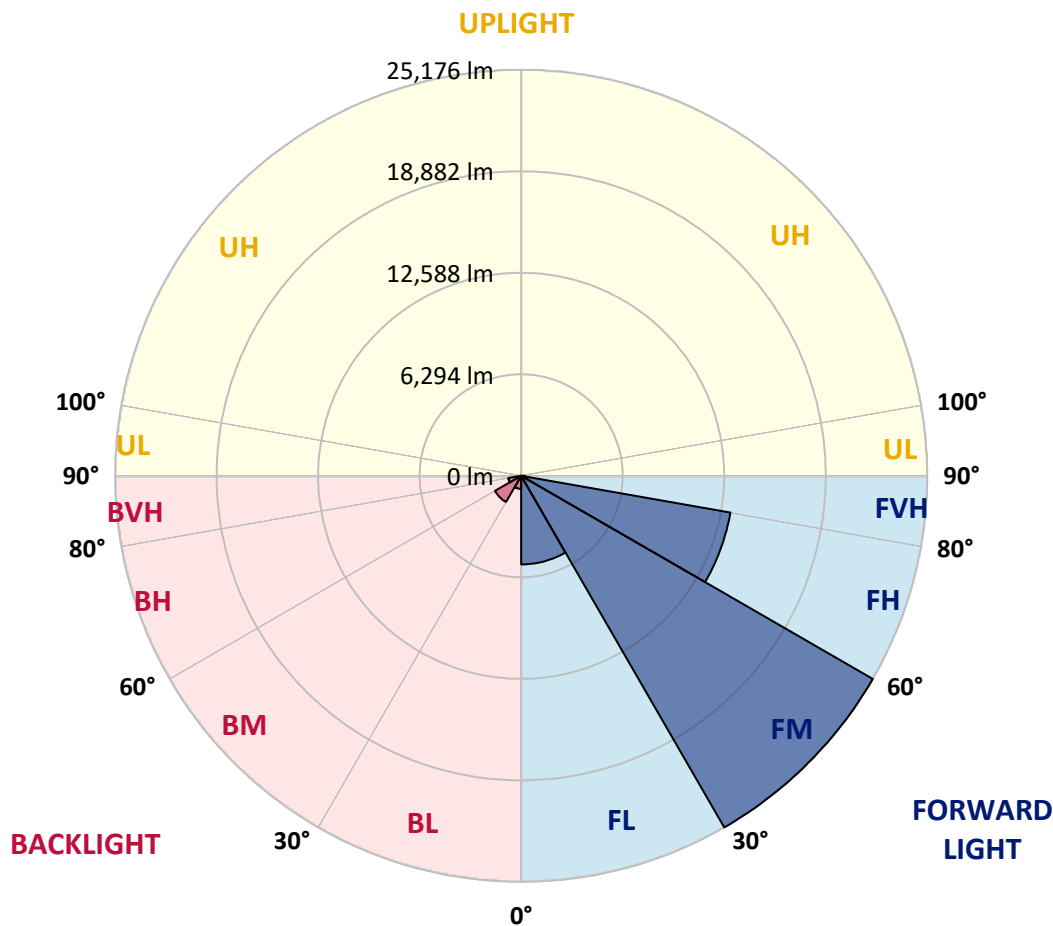
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5492.4	11.5			
FM	(30°-60°)	25175.9	52.9			
FH	(60°-80°)	13173.4	27.7			G5
FVH	(80°-90°)	217.3	0.5			G2/225
BL	(0°-30°)	810.0	1.7	B2/1000		
BM	(30°-60°)	1874.7	3.9	B2/2500		
BH	(60°-80°)	810.0	1.7	B2/1000		G2/1000
BVH	(80°-90°)	4.1	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°	5484.1	5484.1	5484.1	5484.1	5484.1	5484.1	5484.1	5484.1	5484.1	5484.1	5484.1
2.5°	7592.7	7640.0	7572.1	7442.1	7247.2	7120.2	6810.1	6517.8	6192.9	6089.5	5764.7
5°	9255.4	9296.7	9220.0	9078.2	8818.3	8570.3	8162.7	7551.4	6916.4	6712.7	6136.8
7.5°	10486.9	10510.5	10481.0	10351.0	10103.0	9822.4	9367.6	8644.1	7702.0	7477.6	6594.5
10°	11372.9	11449.6	11440.8	11390.6	11225.2	10997.8	10513.5	9689.5	8582.1	8292.7	7111.4
12.5°	11960.6	12046.2	12096.4	12208.6	12199.8	12055.1	11629.8	10758.6	9459.2	9119.6	7693.1
15°	12131.8	12223.4	12415.4	12675.2	12905.6	12979.4	12681.1	11807.0	10424.9	9990.8	8289.7
17.5°	12034.4	12176.1	12406.5	12817.0	13322.0	13655.7	13623.2	12819.9	11302.0	10805.8	8874.4
20°	12250.0	12385.8	12566.0	12911.5	13499.2	14104.6	14346.8	13788.6	12173.2	11653.4	9488.7
22.5°	13443.1	13419.4	13437.2	13493.3	13844.7	14444.2	14943.3	14668.7	13035.5	12503.9	10138.4
25°	15333.1	15226.8	15046.7	14742.5	14653.9	14943.3	15463.1	15448.3	13945.1	13375.2	10802.9
27.5°	17500.8	17483.1	17060.8	16328.4	15914.9	15802.7	16050.8	16207.3	14845.9	14237.5	11470.3
30°	19576.9	19624.2	19054.2	18239.1	17480.1	17040.1	16815.7	16927.9	15761.4	15167.8	12158.4
32.5°	21384.3	21434.5	20814.3	19860.4	18921.3	18389.7	17917.2	17639.6	16759.5	16112.8	12914.4
35°	22911.1	22961.3	22249.6	21195.3	20194.1	19712.8	19178.2	18419.3	17763.6	17161.2	13756.1
37.5°	24275.5	24260.7	23306.8	22243.7	21260.3	20879.3	20598.7	19379.1	18797.3	18215.5	14689.3
40°	25081.7	25143.7	24328.7	23156.2	22202.3	21924.7	21907.0	20569.2	19990.4	19426.3	15711.2
42.5°	25318.0	25427.3	24836.6	23873.9	23008.6	22707.3	23171.0	21856.8	21378.4	20829.1	16865.9
45°	24892.7	24999.0	24730.3	24062.9	23557.9	23363.0	24257.8	23191.7	22860.9	22317.5	18168.2
47.5°	23652.4	23785.3	23850.2	23708.5	23702.6	23900.4	25232.3	24597.4	24621.0	24065.8	19677.3
50°	21251.4	21475.8	22072.4	22574.4	23351.1	24325.7	26180.3	26121.3	26605.6	26127.2	21644.2
52.5°	16886.5	17205.5	19260.9	20634.2	22379.5	24246.0	27222.8	28566.5	30087.4	29387.5	24417.3
55°	13570.1	13570.1	15241.6	17810.9	20483.6	23720.3	27677.6	30155.4	32458.9	32293.5	26369.3
57.5°	11062.8	11195.7	12261.8	14532.8	17740.0	22468.1	27958.2	31153.6	34369.6	34248.5	28277.1
60°	6827.9	7114.3	9128.4	11369.9	14618.5	20238.4	27781.0	32163.6	36687.9	36785.4	30574.7
62.5°	3845.1	3951.4	4849.2	8180.4	11367.0	17240.9	26425.4	32727.6	39652.9	40066.4	32943.2
65°	2654.9	2708.1	3053.6	5091.4	7879.2	13726.6	23776.4	32376.2	42623.9	43459.6	34951.4
67.5°	1928.5	1955.0	2170.6	3109.7	4675.0	9952.4	19624.2	30604.3	44197.9	45594.8	35335.3
70°	1482.5	1500.2	1656.8	2043.6	2761.3	6142.7	14252.3	27081.1	43058.0	44726.6	33368.5
72.5°	1204.9	1222.6	1343.7	1512.1	1831.0	3632.5	8638.2	21992.7	38025.7	39827.2	28407.1
75°	1015.9	1039.5	1148.8	1258.1	1435.3	2333.0	4051.8	15315.4	28596.1	29777.4	19754.1
77.5°	564.1	519.8	933.2	1042.5	1210.8	1476.6	1896.0	9013.2	16015.3	16343.1	8765.2
80°	351.4	363.2	741.3	838.7	930.3	744.2	868.2	3470.0	5552.1	5274.5	1698.1
82.5°	20.7	47.3	570.0	605.4	637.9	318.9	327.8	1178.3	1337.8	1228.5	301.2
85°	0.0	0.0	259.9	209.7	221.5	91.5	94.5	274.6	180.1	194.9	59.1
87.5°	0.0	0.0	0.0	5.9	0.0	8.9	17.7	23.6	8.9	11.8	20.7
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°	5484.1	5484.1	5484.1	5484.1	5484.1	5484.1	5484.1	5484.1	5484.1	5484.1	5484.1
2.5°	5558.0	5351.2	4931.9	4521.4	4187.7	3877.6	3656.1	3446.4	3340.1	3334.2	3328.3
5°	5726.3	5292.2	4453.5	3712.2	3115.7	2637.2	2327.1	2105.6	1993.4	1955.0	1949.1
7.5°	5962.6	5309.9	4034.1	3003.4	2300.6	1890.1	1712.9	1642.0	1618.4	1591.8	1585.9
10°	6260.8	5351.2	3659.0	2418.7	1813.3	1606.6	1535.7	1506.1	1488.4	1470.7	1464.8
12.5°	6594.5	5389.6	3286.9	2008.2	1594.7	1488.4	1438.2	1402.8	1379.2	1358.5	1352.6
15°	6919.4	5413.3	2900.1	1721.7	1482.5	1396.9	1343.7	1305.3	1272.8	1249.2	1246.3
17.5°	7241.3	5445.7	2536.8	1550.4	1391.0	1305.3	1252.2	1204.9	1178.3	1151.8	1148.8
20°	7598.6	5439.8	2194.2	1429.4	1299.4	1213.8	1157.7	1113.4	1086.8	1057.3	1054.3
22.5°	7929.4	5410.3	1893.0	1326.0	1204.9	1122.2	1060.2	1015.9	989.3	965.7	962.8
25°	8310.4	5386.7	1642.0	1231.5	1116.3	1033.6	965.7	924.4	894.8	874.2	871.2
27.5°	8676.6	5351.2	1458.9	1145.9	1030.7	950.9	886.0	838.7	812.1	797.4	797.4
30°	9036.9	5342.4	1391.0	1063.2	953.9	874.2	809.2	764.9	744.2	738.3	735.4
32.5°	9471.0	5366.0	1420.5	1033.6	883.0	803.3	741.3	708.8	688.1	688.1	688.1
35°	9934.6	5360.1	1464.8	1060.2	835.8	732.4	685.1	664.5	643.8	643.8	643.8
37.5°	10516.4	5369.0	1500.2	1104.5	818.0	673.3	646.8	620.2	608.4	608.4	608.4
40°	11384.7	5661.3	1482.5	1142.9	812.1	632.0	578.8	570.0	561.1	561.1	561.1
42.5°	12447.8	6296.3	1506.1	1145.9	809.2	602.5	531.6	549.3	528.6	525.7	522.7
45°	13611.4	6990.3	1656.8	1083.8	806.2	587.7	508.0	528.6	496.1	496.1	496.1
47.5°	14766.1	7678.4	1810.3	995.2	797.4	584.7	487.3	475.5	466.6	469.6	469.6
50°	16357.9	8239.5	1869.4	874.2	776.7	578.8	448.9	451.8	445.9	451.8	451.8
52.5°	18091.4	8357.6	1798.5	738.3	717.6	561.1	422.3	434.1	431.2	437.1	437.1
55°	19172.3	8230.6	1485.5	614.3	626.1	490.2	395.7	419.4	419.4	419.4	419.4
57.5°	20288.6	7690.2	1054.3	499.1	519.8	401.6	372.1	404.6	401.6	398.7	398.7
60°	21091.9	6816.0	694.0	410.5	413.5	330.8	345.5	381.0	378.0	363.2	363.2
62.5°	21691.4	5850.3	445.9	348.5	316.0	298.3	316.0	345.5	333.7	301.2	295.3
65°	21623.5	4512.5	342.6	298.3	259.9	259.9	274.6	301.2	265.8	212.6	206.7
67.5°	20362.5	3053.6	283.5	251.0	218.5	215.6	227.4	251.0	227.4	180.1	174.2
70°	18109.2	1996.4	227.4	194.9	174.2	159.5	183.1	215.6	192.0	144.7	138.8
72.5°	14698.2	1216.7	171.3	141.8	127.0	103.4	144.7	177.2	153.6	106.3	100.4
75°	9509.4	620.2	118.1	91.5	67.9	62.0	106.3	132.9	106.3	65.0	56.1
77.5°	3638.4	259.9	65.0	41.3	35.4	29.5	59.1	79.7	44.3	14.8	11.8
80°	699.9	109.3	32.5	20.7	17.7	11.8	8.9	5.9	0.0	0.0	0.0
82.5°	121.1	35.4	11.8	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	41.3	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.8	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)