

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: P955912

Luminaire Tested: **GALN-SB8D-722-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955912
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8D-722-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51949 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 584.9
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

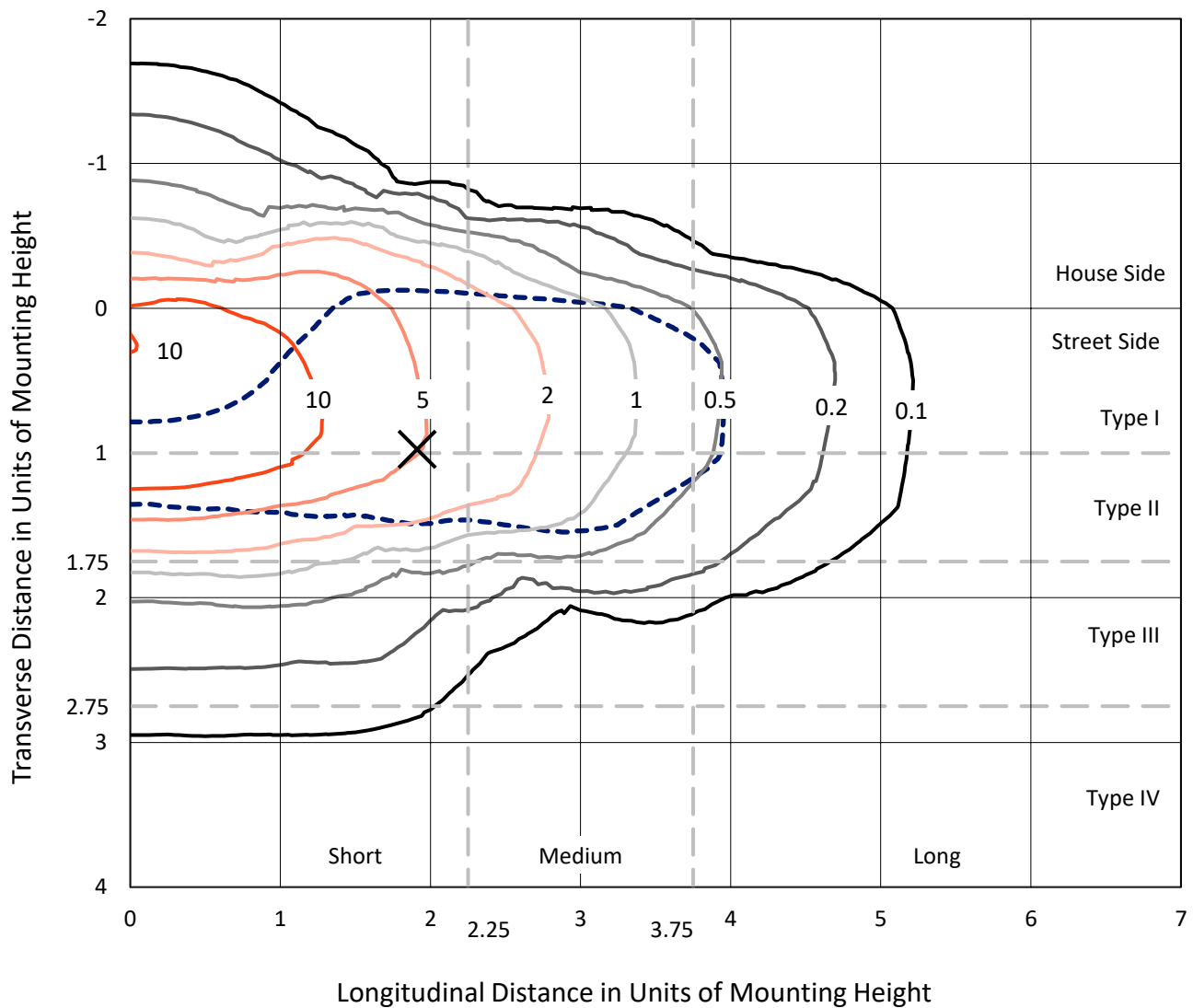


REPORT NUMBER: P955912

CATALOG NUMBER: GALN-SB8D-722-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

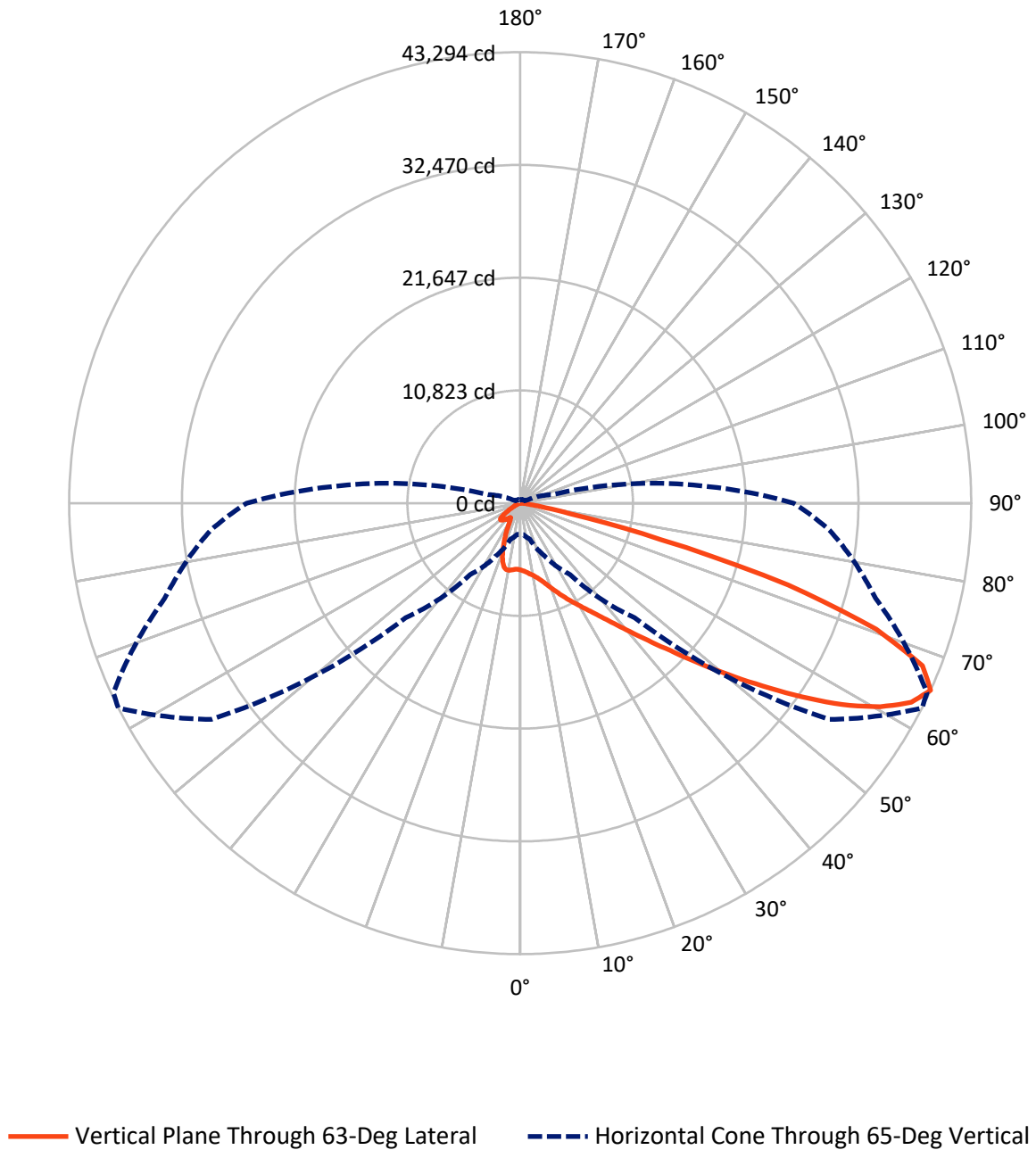
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.6 fc
Type II - Short - N/A

REPORT NUMBER: P955912
CATALOG NUMBER: GALN-SB8D-722-U-T2U-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7636.1	0.0	7636.1
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	44312.9	0.0	44312.9
	% Fixture	85.3	0.0	85.3
Total	Lumens	51949.0	0.0	51949.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	604.1	1.2
10°-20°	1676.1	3.2
20°-30°	2918.5	5.6
30°-40°	5260.3	10.1
40°-50°	10432.9	20.1
50°-60°	14211.4	27.4
60°-70°	11343.4	21.8
70°-80°	5133.2	9.9
80°-90°	369.0	0.7
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°	51949.0	100.0
0°-180°	51949.0	100.0

Coefficient of Utilization



REPORT NUMBER: P955912

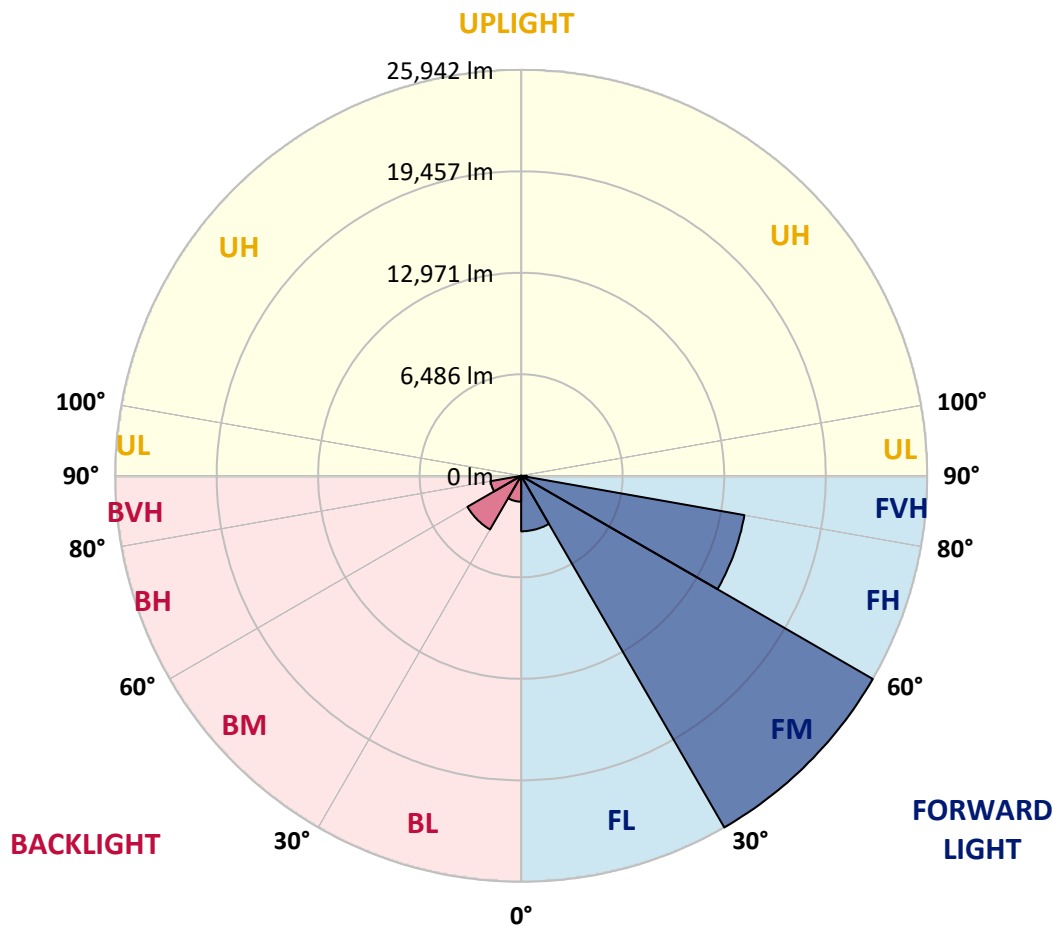
CATALOG NUMBER: GALN-SB8D-722-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3546.2	6.8			
FM	(30°-60°)	25942.0	49.9			
FH	(60°-80°)	14483.1	27.9			G5
FVH	(80°-90°)	341.6	0.7			G3/500
BL	(0°-30°)	1652.6	3.2	B3/2500		
BM	(30°-60°)	3962.7	7.6	B3/5000		
BH	(60°-80°)	1993.5	3.8	B3/2500		G3/2500
BVH	(80°-90°)	27.4	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short



REPORT NUMBER: P955912

CATALOG NUMBER: GALN-SB8D-722-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	6411.5	6411.5	6411.5	6411.5	6411.5	6411.5	6411.5	6411.5	6411.5	6411.5	6411.5
2.5°	6561.6	6543.7	6568.7	6558.0	6550.9	6536.6	6529.4	6522.3	6508.0	6497.3	6454.4
5°	6579.5	6568.7	6593.8	6615.2	6636.6	6658.1	6668.8	6683.1	6668.8	6640.2	6597.3
7.5°	6429.4	6422.2	6475.8	6540.1	6636.6	6718.8	6808.2	6858.2	6861.8	6851.1	6804.6
10°	6418.6	6400.8	6454.4	6533.0	6658.1	6804.6	6961.9	7069.1	7083.4	7129.8	7079.8
12.5°	6586.6	6568.7	6643.8	6729.6	6858.2	7011.9	7204.9	7355.0	7376.4	7440.8	7405.0
15°	6868.9	6843.9	6929.7	7040.5	7204.9	7380.0	7583.7	7719.5	7737.4	7816.0	7751.7
17.5°	7197.7	7172.7	7272.8	7390.7	7569.4	7808.9	8044.7	8194.8	8216.3	8266.3	8148.4
20°	7619.4	7587.3	7665.9	7773.1	7962.5	8248.4	8530.8	8745.2	8741.6	8741.6	8548.7
22.5°	8109.1	8059.0	8126.9	8212.7	8391.4	8738.1	9113.3	9367.1	9367.1	9267.0	8948.9
25°	8634.4	8584.4	8659.4	8738.1	8895.3	9288.4	9728.0	10042.5	10056.8	9885.3	9377.8
27.5°	9292.0	9227.7	9284.9	9377.8	9470.7	9871.0	10392.8	10757.3	10764.4	10500.0	9785.2
30°	10557.2	10374.9	10196.2	10096.1	10139.0	10535.7	11093.2	11497.1	11532.8	11168.3	10228.4
32.5°	12873.0	12837.3	12208.3	11386.3	10957.4	11250.5	11875.9	12361.9	12383.4	11915.2	10803.8
35°	16471.9	16429.0	15417.6	13852.2	12454.9	12208.3	12826.6	13401.9	13387.6	12858.7	11550.7
37.5°	20767.6	20728.3	19395.3	17301.0	15038.8	13655.7	14052.4	14656.4	14745.7	14052.4	12515.6
40°	24438.0	24291.5	23448.0	21428.8	18469.7	16057.3	15796.4	16196.7	16289.6	15467.6	13741.5
42.5°	27218.4	27093.4	26664.5	25402.9	22622.5	19609.7	17851.4	18005.1	18108.7	17122.3	15149.6
45°	28658.7	28630.1	28801.7	28683.7	26853.9	23969.8	20789.1	20149.4	20188.7	18955.7	16747.1
47.5°	28862.4	28848.1	29630.8	30738.7	30492.1	28887.4	24559.5	22822.6	22683.2	21025.0	18484.0
50°	27661.6	27633.0	29134.0	31210.4	32922.3	33018.8	28841.0	25835.4	25528.0	23165.7	20295.9
52.5°	23826.9	23819.7	26285.7	29741.6	33776.5	36635.5	33072.4	29144.8	28630.1	25431.5	22211.5
55°	18333.9	18466.1	21293.0	25377.9	32218.3	38376.0	36871.4	32818.7	32028.8	27711.6	23977.0
57.5°	12987.4	13180.4	15975.1	19613.3	27386.4	37346.7	39441.0	36499.7	35649.2	29984.6	25767.5
60°	6976.2	7147.7	9946.0	14288.3	20374.5	33508.4	40795.5	39694.8	38890.6	32143.2	27382.8
62.5°	4156.4	4213.6	5371.5	9224.1	13780.8	25599.5	40220.1	42128.6	41467.4	33955.2	28787.4
65°	2984.2	2994.9	3577.4	5632.4	8366.4	15553.4	36185.2	43293.6	43089.9	35320.4	29827.4
67.5°	2512.4	2505.3	2748.3	3741.8	5700.3	7791.0	27733.1	41646.1	42511.0	36185.2	30417.0
70°	2155.0	2165.8	2451.7	2741.1	4285.0	4410.1	13787.9	36260.3	38104.4	36414.0	30381.3
72.5°	1604.7	1640.4	1904.9	2498.1	3234.3	3034.2	4760.4	26886.1	30220.5	34309.0	28805.2
75°	1132.9	1150.8	1340.2	2101.4	2412.3	2208.6	2430.2	13898.7	18173.0	26303.5	23576.7
77.5°	872.0	904.2	1015.0	1468.9	2376.6	1551.1	1486.7	4810.4	7390.7	15889.3	16164.5
80°	471.7	528.9	732.6	1061.4	1669.0	1097.2	736.2	1915.6	2505.3	7430.0	6232.8
82.5°	243.0	271.6	511.1	764.8	950.6	957.8	364.5	797.0	1032.8	2294.4	854.2
85°	96.5	117.9	343.1	421.7	489.6	471.7	164.4	321.6	371.7	636.1	260.9
87.5°	21.4	35.7	125.1	96.5	92.9	100.1	39.3	75.1	71.5	75.1	46.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P955912

CATALOG NUMBER: GALN-SB8D-722-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6411.5	6411.5	6411.5	6411.5	6411.5	6411.5	6411.5	6411.5	6411.5	6411.5	6411.5
2.5°	6450.8	6436.5	6397.2	6354.3	6304.3	6275.7	6257.8	6254.2	6229.2	6211.4	6229.2
5°	6558.0	6543.7	6468.7	6379.3	6282.8	6207.8	6136.3	6072.0	5979.1	5961.2	5954.0
7.5°	6772.4	6733.1	6611.6	6490.1	6307.8	6089.8	5825.4	5521.6	5250.0	5167.8	5128.5
10°	7036.9	6983.3	6829.6	6615.2	6211.4	5618.1	4978.4	4385.1	3913.4	3781.1	3731.1
12.5°	7337.1	7290.7	7086.9	6690.2	5807.5	4731.8	3752.5	3016.3	2558.9	2444.5	2412.3
15°	7694.5	7626.6	7344.3	6575.9	5085.6	3595.3	2576.7	2140.7	1976.3	1954.9	1933.5
17.5°	8073.3	7962.5	7573.0	6164.9	4113.5	2555.3	1990.6	1865.6	1794.1	1772.6	1761.9
20°	8420.0	8277.0	7708.8	5543.0	3073.5	1990.6	1783.4	1701.2	1636.8	1611.8	1597.5
22.5°	8766.7	8562.9	7708.8	4696.0	2305.1	1765.5	1636.8	1561.8	1486.7	1454.6	1436.7
25°	9127.6	8856.0	7573.0	3752.5	1854.8	1619.0	1497.4	1415.2	1350.9	1311.6	1297.3
27.5°	9477.9	9102.6	7262.1	2859.1	1651.1	1490.3	1368.8	1290.2	1229.4	1200.8	1200.8
30°	9810.2	9345.6	6826.1	2169.3	1518.9	1365.2	1250.8	1182.9	1122.2	1093.6	1097.2
32.5°	10260.5	9653.0	6361.5	1779.8	1404.5	1247.3	1143.6	1079.3	1025.7	1004.3	1004.3
35°	10885.9	10106.8	5961.2	1747.6	1308.0	1150.8	1047.1	986.4	932.8	914.9	914.9
37.5°	11772.3	10839.5	5750.3	1962.0	1229.4	1065.0	968.5	904.2	854.2	839.9	836.3
40°	12865.9	11833.0	5864.7	2176.5	1175.8	990.0	897.0	832.7	789.8	772.0	768.4
42.5°	14163.2	13058.9	6497.3	2340.9	1140.1	925.6	829.1	757.7	729.1	721.9	721.9
45°	15653.5	14406.2	7465.8	2516.0	1082.9	864.9	761.2	707.6	686.2	682.6	679.0
47.5°	17347.5	15885.8	8588.0	2734.0	1025.7	807.7	707.6	671.9	654.0	646.9	646.9
50°	19027.2	17376.1	9742.3	2855.5	979.2	754.1	664.7	636.1	621.9	618.3	618.3
52.5°	20785.5	18909.2	10675.1	2741.1	939.9	711.2	629.0	607.6	593.3	589.7	589.7
55°	22461.7	20149.4	10835.9	2326.6	861.3	668.3	589.7	579.0	561.1	561.1	557.5
57.5°	23905.5	20771.2	9699.4	1708.3	782.7	604.0	550.4	539.7	525.4	521.8	518.2
60°	25231.4	20592.5	7487.2	1150.8	696.9	539.7	500.3	493.2	478.9	461.0	457.5
62.5°	25978.3	19806.3	5121.3	750.5	611.1	471.7	443.2	439.6	407.4	371.7	364.5
65°	26260.7	18190.9	3195.0	546.8	511.1	403.8	382.4	375.3	328.8	289.5	285.9
67.5°	26014.1	15532.0	1611.8	432.4	403.8	335.9	314.5	314.5	282.3	246.6	243.0
70°	25027.7	11643.6	679.0	346.7	310.9	257.3	257.3	271.6	239.4	200.1	196.6
72.5°	22886.9	7833.9	361.0	264.5	232.3	182.3	210.9	221.6	189.4	150.1	150.1
75°	18194.5	4778.2	250.2	196.6	146.5	128.7	160.8	168.0	128.7	100.1	96.5
77.5°	12444.1	2744.7	168.0	125.1	92.9	75.1	110.8	103.6	67.9	46.5	50.0
80°	5464.4	1143.6	96.5	57.2	35.7	28.6	39.3	28.6	21.4	14.3	14.3
82.5°	639.7	268.0	35.7	21.4	14.3	7.1	3.6	0.0	0.0	0.0	0.0
85°	132.2	32.2	17.9	7.1	3.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	25.0	7.1	3.6	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)