

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: P955910

Luminaire Tested: **GALN-SB8D-722-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955910
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-SB8D-722-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2200K, 900mA 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: 57553 lumens
Efficiency: N/A
Efficacy: 98.4 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

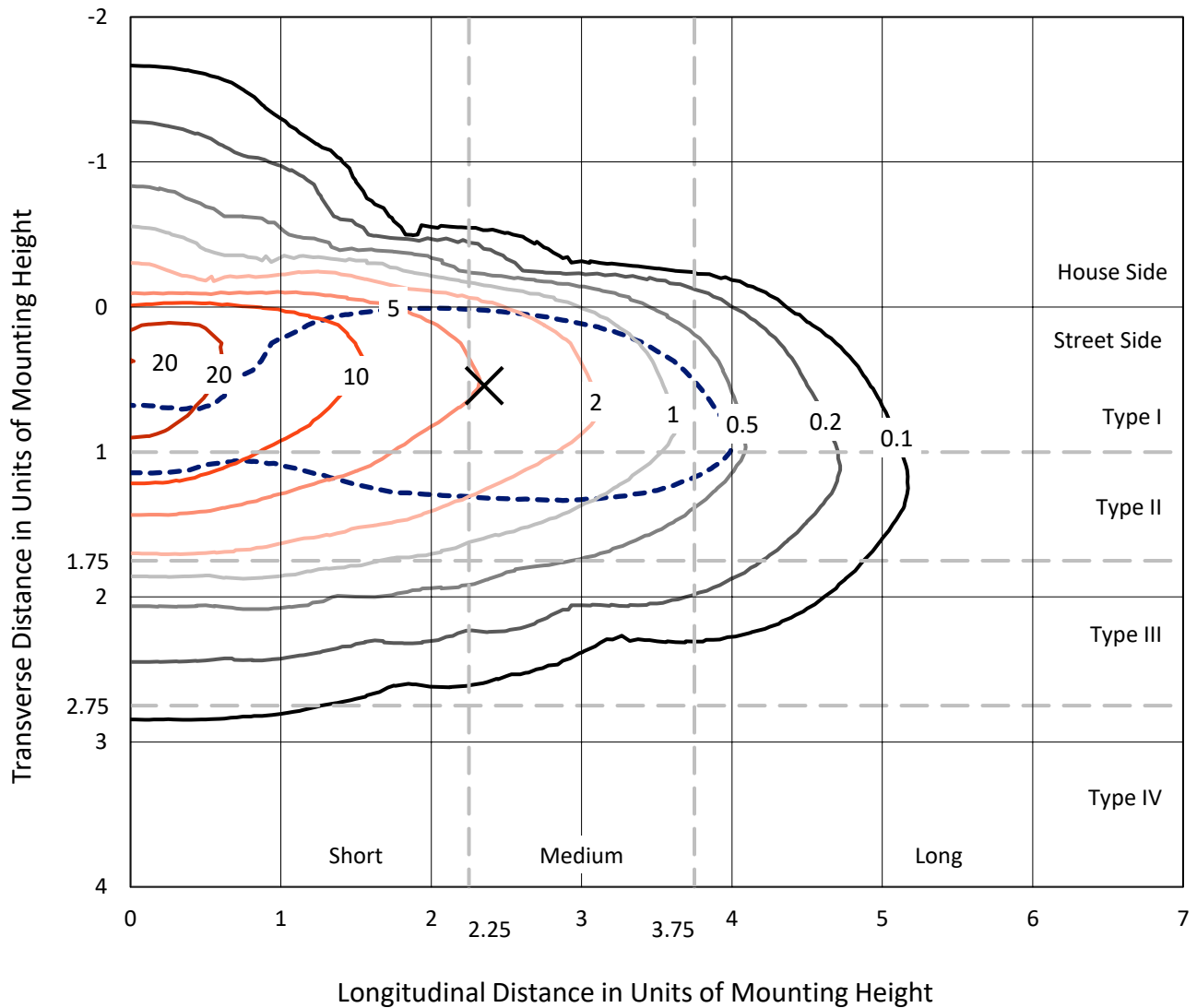
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

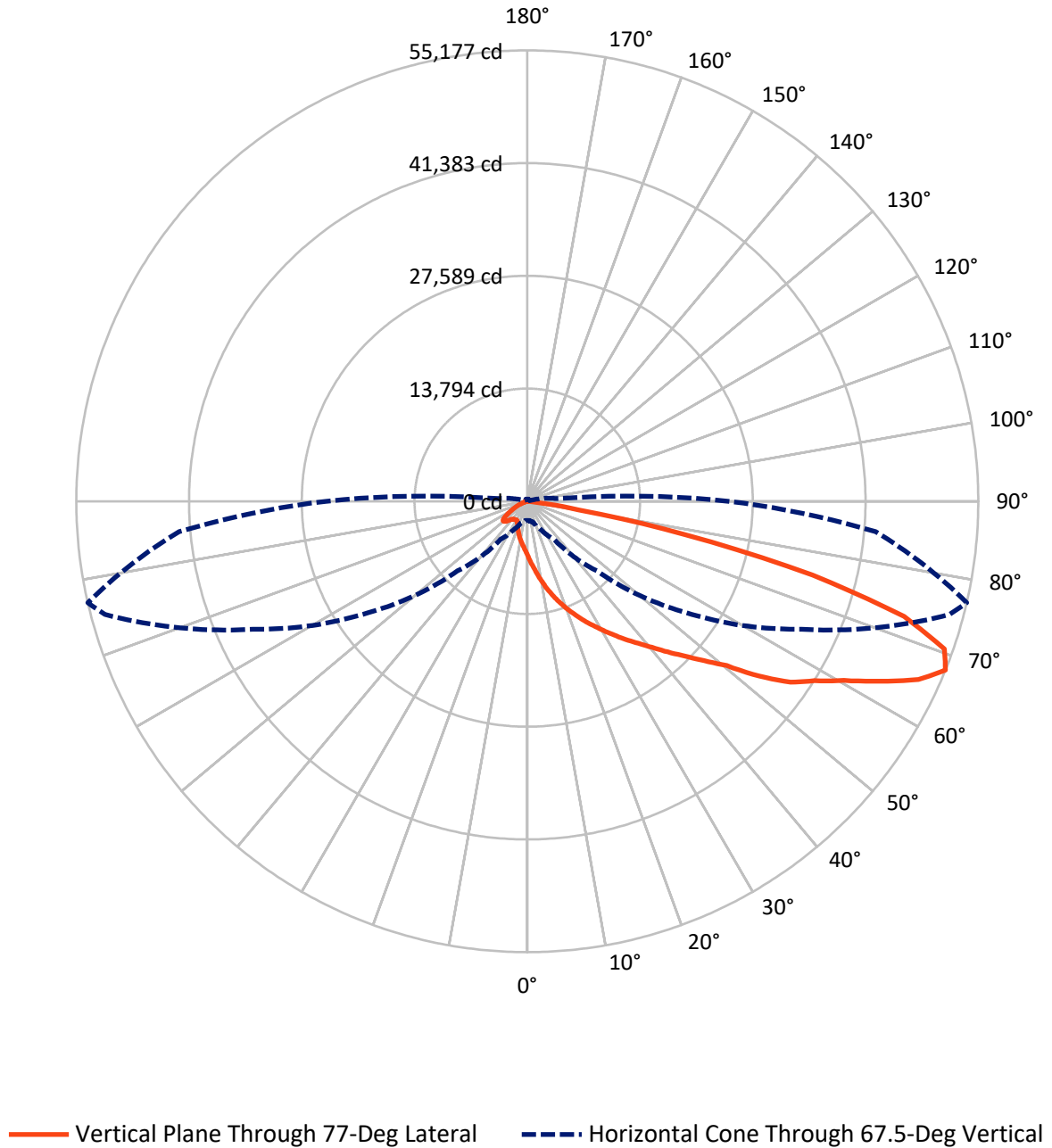
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.8 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	4234.2	0.0	4234.2
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	53318.8	0.0	53318.8
	% Fixture	92.6	0.0	92.6
Total	Lumens	57553.0	0.0	57553.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	677.4	1.2
10°-20°	2372.1	4.1
20°-30°	4577.5	8.0
30°-40°	7946.9	13.8
40°-50°	11538.4	20.0
50°-60°	13250.4	23.0
60°-70°	11503.8	20.0
70°-80°	5418.4	9.4
80°-90°	268.0	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°	57553.0	100.0
0°-180°	57553.0	100.0

Coefficient of Utilization



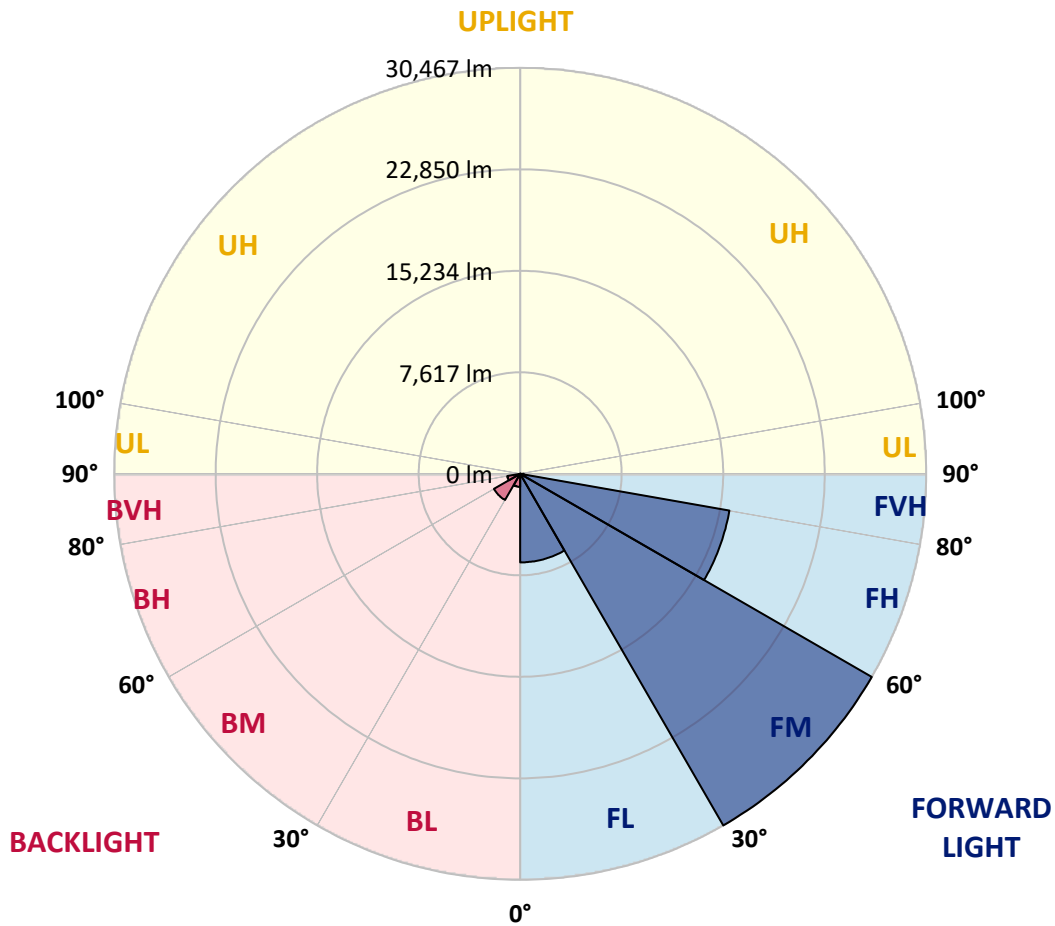
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6646.8	11.5			
FM (30°-60°)	30467.0	52.9			
FH (60°-80°)	15942.0	27.7			G5
FVH (80°-90°)	263.0	0.5			G3/500
BL (0°-30°)	980.3	1.7	B2/1000		
BM (30°-60°)	2268.7	3.9	B2/2500		
BH (60°-80°)	980.3	1.7	B2/1000		G2/1000
BVH (80°-90°)	4.9	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°	6636.7	6636.7	6636.7	6636.7	6636.7	6636.7	6636.7	6636.7	6636.7	6636.7	6636.7
2.5°	9188.5	9245.6	9163.4	9006.2	8770.3	8616.6	8241.4	7887.6	7494.4	7369.4	6976.2
5°	11200.6	11250.6	11157.7	10986.1	10671.6	10371.4	9878.2	9138.4	8370.0	8123.4	7426.5
7.5°	12690.9	12719.5	12683.7	12526.5	12226.3	11886.7	11336.4	10460.8	9320.7	9049.1	7980.5
10°	13763.0	13856.0	13845.2	13784.5	13584.3	13309.2	12723.0	11725.9	10385.7	10035.5	8605.9
12.5°	14474.2	14577.9	14638.6	14774.4	14763.7	14588.6	14074.0	13019.7	11447.2	11036.2	9310.0
15°	14681.5	14792.3	15024.6	15339.1	15617.9	15707.2	15346.3	14288.4	12615.8	12090.5	10031.9
17.5°	14563.6	14735.1	15013.9	15510.7	16121.8	16525.7	16486.3	15514.2	13677.3	13076.9	10739.5
20°	14824.5	14988.9	15206.9	15625.0	16336.2	17068.9	17361.9	16686.5	14731.6	14102.6	11482.9
22.5°	16268.3	16239.7	16261.2	16329.1	16754.4	17479.9	18083.9	17751.5	15775.1	15131.8	12269.2
25°	18555.6	18427.0	18209.0	17840.8	17733.6	18083.9	18712.9	18695.0	16875.9	16186.1	13073.3
27.5°	21178.9	21157.4	20646.3	19760.0	19259.7	19123.9	19424.1	19613.5	17965.9	17229.7	13881.0
30°	23691.3	23748.5	23058.7	22072.3	21153.8	20621.3	20349.7	20485.5	19073.8	18355.5	14713.7
32.5°	25878.5	25939.3	25188.8	24034.4	22897.9	22254.6	21682.8	21346.8	20281.8	19499.1	15628.6
35°	27726.2	27787.0	26925.7	25649.8	24438.2	23855.7	23208.8	22290.3	21496.9	20767.9	16647.2
37.5°	29377.3	29359.5	28205.1	26918.5	25728.4	25267.4	24927.9	23451.8	22747.8	22043.7	17776.5
40°	30353.0	30428.1	29441.7	28022.8	26868.5	26532.5	26511.1	24892.1	24191.6	23509.0	19013.1
42.5°	30638.9	30771.2	30056.4	28891.3	27844.1	27479.6	28040.7	26450.3	25871.4	25206.6	20410.5
45°	30124.3	30252.9	29927.7	29120.0	28508.9	28273.0	29355.9	28065.7	27665.5	27007.9	21986.5
47.5°	28623.3	28784.1	28862.7	28691.2	28684.0	28923.5	30535.3	29766.9	29795.5	29123.6	23812.8
50°	25717.7	25989.3	26711.2	27318.8	28258.7	29438.1	31682.5	31611.0	32197.1	31618.2	26193.0
52.5°	20435.5	20821.5	23308.9	24970.7	27082.9	29341.6	32944.1	34570.2	36410.8	35563.7	29548.9
55°	16422.0	16422.0	18444.8	21554.1	24788.5	28705.5	33494.5	36493.0	39280.6	39080.4	31911.2
57.5°	13387.8	13548.6	14838.8	17587.1	21468.3	27190.1	33834.0	37700.9	41592.9	41446.4	34220.0
60°	8262.8	8609.5	11046.9	13759.5	17690.7	24491.8	33619.5	38923.2	44398.4	44516.3	37000.4
62.5°	4653.2	4781.9	5868.3	9899.7	13755.9	20864.3	31979.1	39605.8	47986.6	48486.9	39866.7
65°	3212.9	3277.3	3695.4	6161.4	9535.1	16611.4	28773.4	39180.5	51581.9	52593.3	42296.9
67.5°	2333.7	2365.9	2626.8	3763.3	5657.5	12044.0	23748.5	37036.2	53486.8	55177.2	42761.5
70°	1794.1	1815.5	2005.0	2473.1	3341.6	7433.7	17247.6	32772.5	52107.3	54126.5	40381.3
72.5°	1458.1	1479.6	1626.1	1829.8	2215.8	4395.9	10453.6	26614.7	46017.4	48197.4	34377.2
75°	1229.4	1258.0	1390.2	1522.5	1736.9	2823.4	4903.4	18534.2	34605.9	36035.5	23905.7
77.5°	682.6	629.0	1129.3	1261.6	1465.3	1786.9	2294.4	10907.5	19381.2	19777.9	10607.3
80°	425.3	439.6	897.0	1015.0	1125.8	900.6	1050.7	4199.3	6718.9	6383.0	2055.0
82.5°	25.0	57.2	689.8	732.6	772.0	386.0	396.7	1426.0	1619.0	1486.7	364.5
85°	0.0	0.0	314.5	253.7	268.0	110.8	114.4	332.4	218.0	235.9	71.5
87.5°	0.0	0.0	0.0	7.1	0.0	10.7	21.4	28.6	10.7	14.3	25.0
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°	6636.7	6636.7	6636.7	6636.7	6636.7	6636.7	6636.7	6636.7	6636.7	6636.7	6636.7
2.5°	6726.1	6475.9	5968.4	5471.6	5067.8	4692.5	4424.5	4170.7	4042.1	4034.9	4027.8
5°	6929.8	6404.4	5389.4	4492.4	3770.5	3191.5	2816.2	2548.2	2412.4	2365.9	2358.8
7.5°	7215.7	6425.8	4881.9	3634.6	2784.1	2287.3	2072.9	1987.1	1958.5	1926.3	1919.2
10°	7576.6	6475.9	4428.0	2927.0	2194.4	1944.2	1858.4	1822.7	1801.2	1779.8	1772.6
12.5°	7980.5	6522.3	3977.7	2430.2	1929.9	1801.2	1740.5	1697.6	1669.0	1644.0	1636.8
15°	8373.6	6550.9	3509.6	2083.6	1794.1	1690.4	1626.1	1579.7	1540.3	1511.8	1508.2
17.5°	8763.2	6590.2	3070.0	1876.3	1683.3	1579.7	1515.3	1458.1	1426.0	1393.8	1390.2
20°	9195.6	6583.1	2655.4	1729.8	1572.5	1468.9	1401.0	1347.4	1315.2	1279.5	1275.9
22.5°	9595.9	6547.4	2290.9	1604.7	1458.1	1358.1	1283.0	1229.4	1197.3	1168.7	1165.1
25°	10056.9	6518.8	1987.1	1490.3	1350.9	1250.9	1168.7	1118.6	1082.9	1057.9	1054.3
27.5°	10500.1	6475.9	1765.5	1386.7	1247.3	1150.8	1072.2	1015.0	982.8	964.9	964.9
30°	10936.1	6465.2	1683.3	1286.6	1154.4	1057.9	979.2	925.6	900.6	893.5	889.9
32.5°	11461.5	6493.8	1719.0	1250.9	1068.6	972.1	897.0	857.7	832.7	832.7	832.7
35°	12022.6	6486.6	1772.6	1283.0	1011.4	886.3	829.1	804.1	779.1	779.1	779.1
37.5°	12726.6	6497.3	1815.5	1336.6	990.0	814.8	782.7	750.5	736.2	736.2	736.2
40°	13777.3	6851.1	1794.1	1383.1	982.8	764.8	700.5	689.8	679.0	679.0	679.0
42.5°	15063.9	7619.5	1822.7	1386.7	979.2	729.1	643.3	664.7	639.7	636.2	632.6
45°	16472.0	8459.4	2005.0	1311.6	975.7	711.2	614.7	639.7	600.4	600.4	600.4
47.5°	17869.4	9292.1	2190.8	1204.4	964.9	707.6	589.7	575.4	564.7	568.2	568.2
50°	19795.8	9971.1	2262.3	1057.9	939.9	700.5	543.2	546.8	539.7	546.8	546.8
52.5°	21893.6	10114.1	2176.5	893.5	868.5	679.0	511.1	525.4	521.8	528.9	528.9
55°	23201.7	9960.4	1797.7	743.4	757.7	593.3	478.9	507.5	507.5	507.5	507.5
57.5°	24552.6	9306.4	1275.9	604.0	629.0	486.0	450.3	489.6	486.0	482.5	482.5
60°	25524.7	8248.5	839.9	496.8	500.3	400.3	418.1	461.0	457.5	439.6	439.6
62.5°	26250.2	7079.9	539.7	421.7	382.4	361.0	382.4	418.1	403.8	364.5	357.4
65°	26168.0	5460.9	414.6	361.0	314.5	314.5	332.4	364.5	321.6	257.3	250.2
67.5°	24641.9	3695.4	343.1	303.8	264.5	260.9	275.2	303.8	275.2	218.0	210.9
70°	21915.1	2415.9	275.2	235.9	210.9	193.0	221.6	260.9	232.3	175.1	168.0
72.5°	17787.2	1472.4	207.3	171.5	153.7	125.1	175.1	214.4	185.8	128.7	121.5
75°	11507.9	750.5	143.0	110.8	82.2	75.1	128.7	160.8	128.7	78.6	67.9
77.5°	4403.0	314.5	78.6	50.0	42.9	35.7	71.5	96.5	53.6	17.9	14.3
80°	847.0	132.2	39.3	25.0	21.4	14.3	10.7	7.1	0.0	0.0	0.0
82.5°	146.5	42.9	14.3	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	50.0	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.9	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)