

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: P651401

Luminaire Tested: **GALN-SA5D-840-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651401
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-840-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32292.7 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

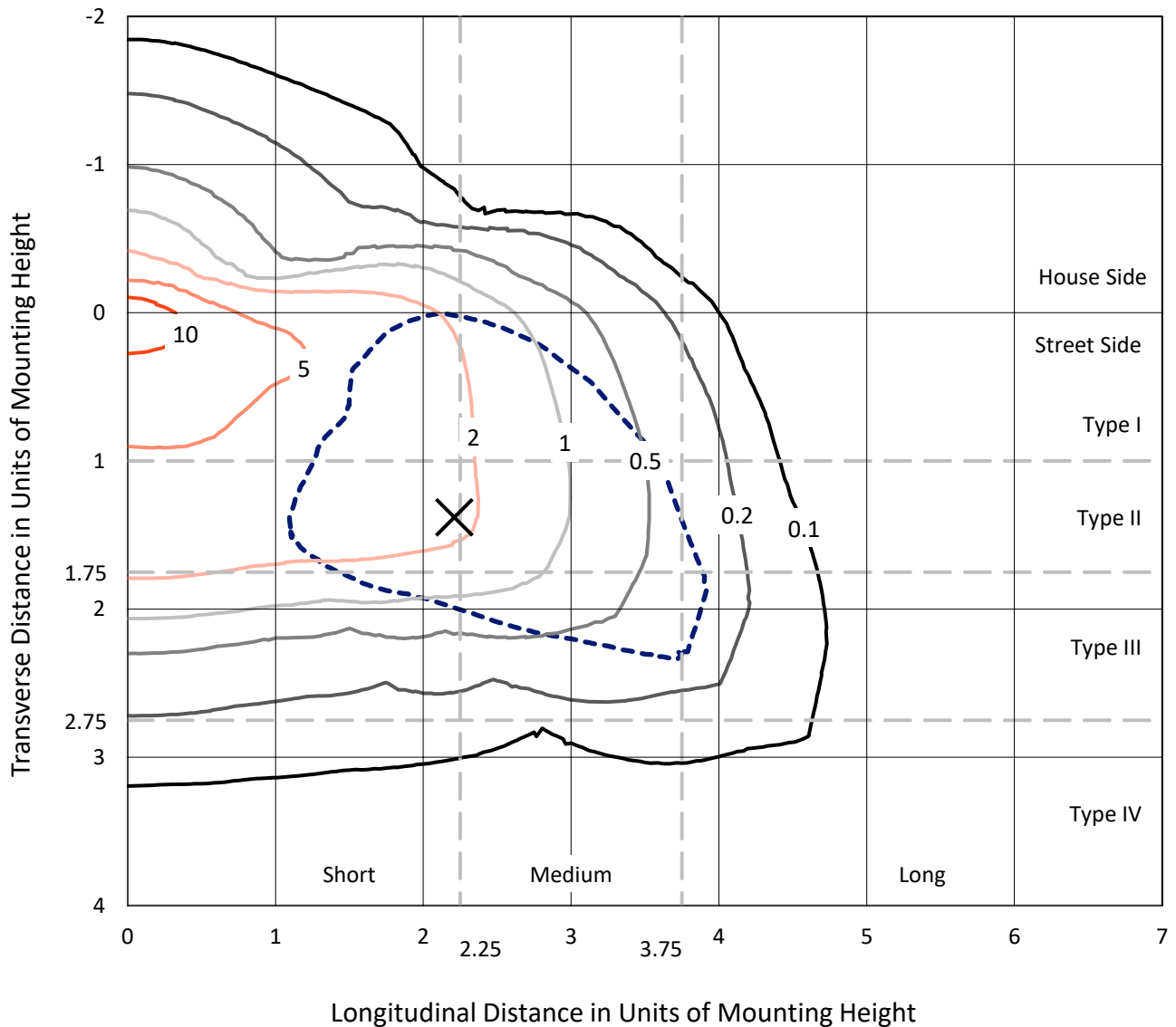
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

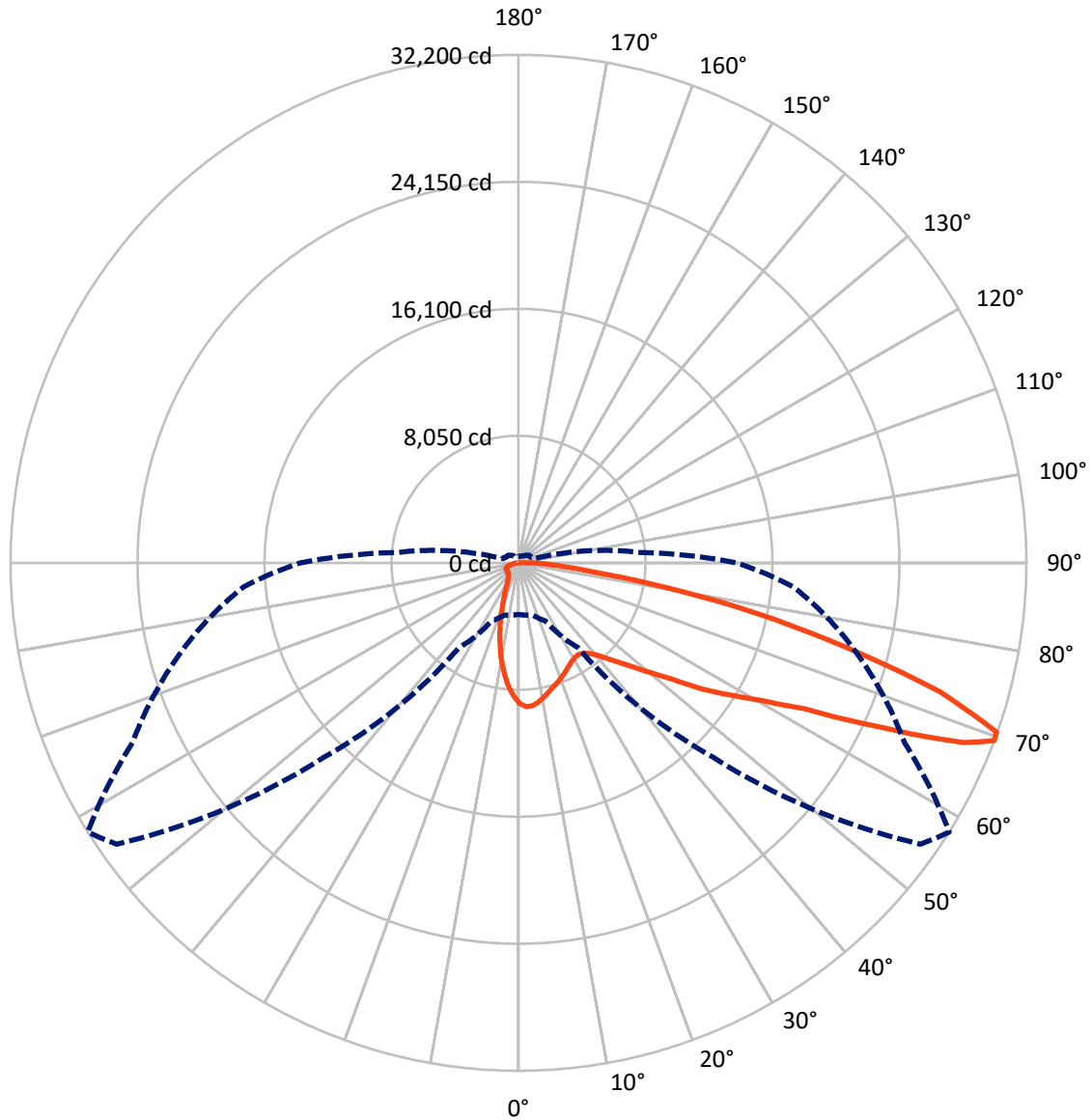
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4732.5	0.0	4732.5
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	27560.2	0.0	27560.2
	% Fixture	85.3	0.0	85.3
Total	Lumens	32292.7	0.0	32292.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	757.8	2.3
10°-20°	1664.1	5.2
20°-30°	2150.0	6.7
30°-40°	2792.5	8.6
40°-50°	4059.9	12.6
50°-60°	6478.2	20.1
60°-70°	8654.1	26.8
70°-80°	4988.8	15.4
80°-90°	747.2	2.3
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°	32292.7	100.0
0°-180°	32292.7	100.0

Coefficient of Utilization



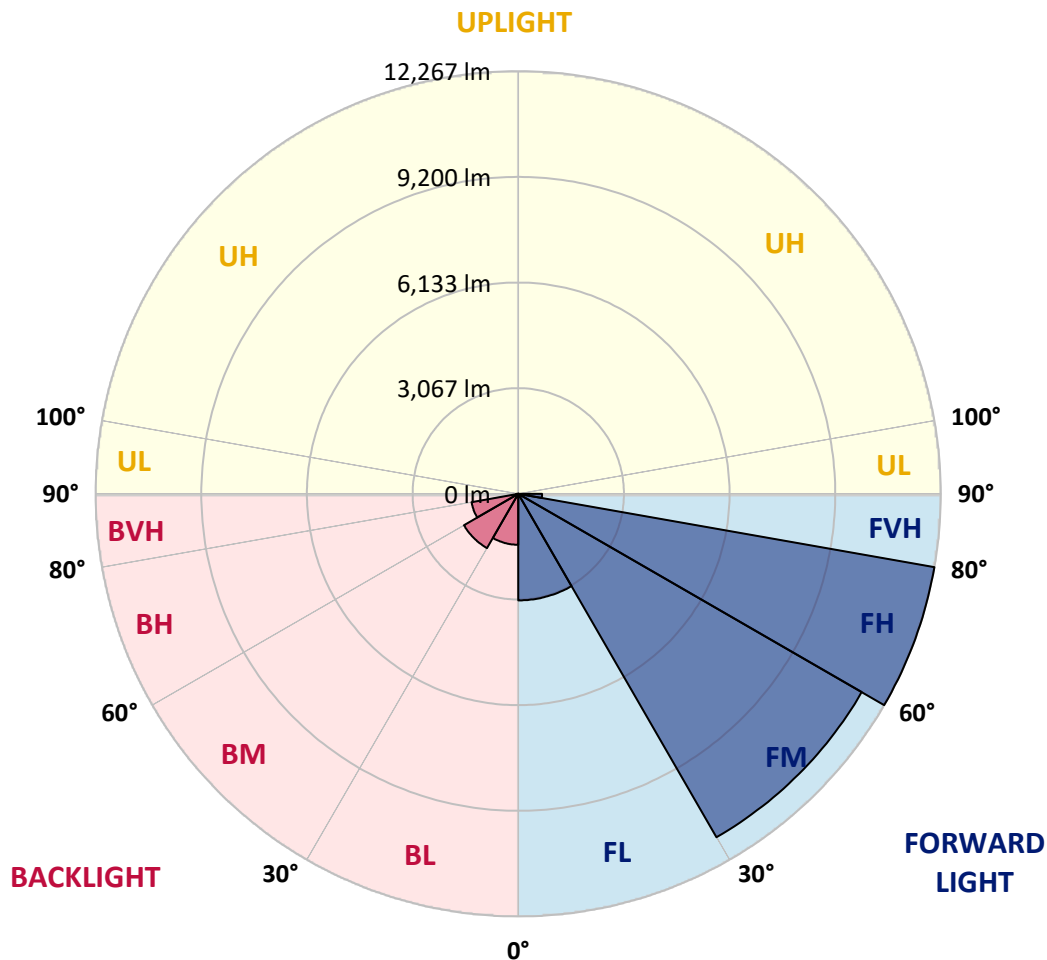
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3092.8	9.6			
FM (30°-60°)	11510.7	35.6			
FH (60°-80°)	12266.8	38.0			G5
FVH (80°-90°)	690.0	2.1			G4/750
BL (0°-30°)	1479.2	4.6	B3/2500		
BM (30°-60°)	1820.0	5.6	B2/2500		
BH (60°-80°)	1376.1	4.3	B3/2500		G3/2500
BVH (80°-90°)	57.2	0.2			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	8923.9	8923.9	8923.9	8923.9	8923.9	8923.9	8923.9	8923.9	8923.9	8923.9	8923.9
2.5°	9255.2	9280.4	9273.2	9264.2	9249.8	9210.2	9145.4	9134.5	9093.1	9004.8	8895.0
5°	9112.9	9134.5	9136.4	9148.9	9167.0	9159.8	9112.9	9107.5	9046.3	8927.4	8743.7
7.5°	8624.9	8653.6	8716.7	8786.9	8850.0	8909.4	8923.9	8932.8	8895.0	8758.1	8513.2
10°	8075.5	8104.4	8133.2	8237.7	8392.5	8540.2	8662.6	8678.9	8687.9	8561.8	8262.8
12.5°	7466.8	7526.3	7587.5	7742.4	7949.5	8181.8	8398.0	8432.1	8493.3	8398.0	8046.8
15°	6949.9	7011.2	7099.5	7238.1	7488.4	7823.4	8127.8	8183.6	8304.3	8255.7	7845.0
17.5°	6591.6	6613.2	6674.4	6832.9	7103.0	7456.1	7863.0	7974.7	8167.4	8154.8	7672.1
20°	6308.8	6335.8	6373.6	6470.9	6751.9	7124.6	7616.3	7760.4	8021.5	8064.8	7501.0
22.5°	6189.9	6209.8	6204.3	6256.5	6447.4	6822.1	7366.0	7537.0	7891.9	8003.5	7342.6
25°	6197.2	6215.2	6188.2	6175.5	6289.0	6555.5	7104.9	7322.8	7787.4	7962.1	7198.5
27.5°	6317.8	6330.4	6280.0	6229.5	6238.5	6389.8	6888.7	7130.1	7699.2	7980.1	7077.9
30°	6479.9	6503.3	6470.9	6409.7	6343.0	6350.2	6750.0	6987.8	7657.7	8043.2	7020.2
32.5°	6688.8	6710.4	6696.0	6647.3	6561.0	6465.5	6715.8	6935.6	7661.3	8171.0	7007.5
35°	6908.6	6951.8	6975.2	6971.6	6901.3	6735.7	6850.9	7032.8	7747.8	8385.4	7081.4
37.5°	7157.1	7193.1	7293.9	7358.8	7293.9	7101.2	7155.2	7281.3	7938.7	8695.1	7243.5
40°	7398.4	7452.4	7600.1	7801.8	7776.6	7607.3	7619.9	7702.7	8275.4	9156.1	7560.5
42.5°	7650.5	7715.3	7972.9	8271.8	8331.3	8199.8	8234.1	8307.9	8754.6	9795.5	8104.4
45°	7974.7	8052.2	8369.1	8741.9	8976.1	8895.0	8992.2	9028.3	9395.7	10627.5	8821.2
47.5°	8392.5	8482.6	8873.4	9338.0	9669.4	9743.2	9912.5	9890.9	10189.9	11612.7	9750.5
50°	9096.7	9147.1	9516.3	9990.0	10445.6	10778.8	10962.5	10996.7	11175.0	12570.8	10789.6
52.5°	9934.1	9979.2	10245.7	10659.9	11230.9	11936.8	12390.7	12279.0	12322.2	13737.8	12005.3
55°	10876.1	10951.7	11121.0	11396.6	12136.7	13175.9	14087.2	14114.3	13635.1	14854.4	13170.5
57.5°	11605.5	11733.3	12023.3	12415.9	13354.2	14553.7	15778.3	15796.3	15184.0	16046.7	14456.4
60°	11238.0	11389.3	12052.1	13008.4	14951.6	16957.9	17799.0	17696.3	16691.4	17404.6	16025.1
62.5°	9653.3	9680.2	10643.8	12138.6	15443.4	20174.5	20806.6	20372.6	18703.1	19126.4	17619.0
65°	6247.5	6424.1	7187.7	9282.2	13827.9	21959.3	26076.3	25073.2	21523.4	21080.3	18953.4
67.5°	3944.1	3899.1	4216.1	5300.2	9511.0	20387.0	30573.3	30414.8	25211.8	22314.1	18634.6
69°	3270.6	3321.0	3429.0	4063.0	6544.7	17406.4	31104.6	32199.6	27000.1	22216.8	17476.7
70°	2966.2	2989.6	3103.0	3601.9	5050.0	14578.9	30232.9	32150.9	27702.5	21809.7	16637.4
72.5°	2353.9	2352.1	2546.5	2996.8	3774.8	8322.3	24824.6	27913.3	26917.3	19915.1	13746.8
75°	1788.4	1817.1	2031.5	2535.8	3477.7	4547.5	17323.6	21496.4	21498.2	15729.7	8578.0
77.5°	1289.5	1307.5	1557.9	2128.7	3275.9	3686.6	11538.9	15418.1	14494.2	7207.5	2696.1
80°	844.6	855.5	1046.4	1685.7	2953.6	3477.7	6841.9	9437.1	6836.5	1912.6	891.5
82.5°	462.9	516.9	639.3	1091.4	2370.1	3213.0	4158.4	4776.2	2564.5	851.8	464.7
85°	232.3	246.7	360.2	637.6	1548.9	2658.2	2896.0	2739.3	1323.7	423.2	241.4
87.5°	68.5	86.5	149.4	246.7	628.6	1385.0	1611.9	1446.2	509.6	153.1	50.5
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°	8923.9	8923.9	8923.9	8923.9	8923.9	8923.9	8923.9	8923.9	8923.9	8923.9	8923.9
2.5°	8850.0	8817.5	8673.5	8543.8	8425.0	8298.9	8192.6	8099.0	8108.0	8109.8	8014.3
5°	8648.3	8574.4	8300.7	8044.9	7828.8	7555.0	7321.0	7169.7	7094.0	6993.2	7029.2
7.5°	8374.5	8232.2	7852.2	7427.2	7029.2	6674.4	6289.0	6024.3	5855.0	5691.0	5712.7
10°	8091.8	7863.0	7310.1	6748.3	6233.2	5665.8	5174.2	4752.7	4439.4	4322.3	4244.9
12.5°	7801.8	7501.0	6798.6	6051.2	5339.8	4660.9	3964.0	3511.9	3166.1	2982.4	3005.8
15°	7537.0	7171.5	6265.6	5354.3	4430.4	3621.8	2926.6	2496.2	2254.8	2204.4	2233.2
17.5°	7292.1	6813.1	5766.7	4677.1	3598.3	2715.8	2199.0	1955.8	1858.6	1831.6	1829.8
20°	7040.0	6508.8	5206.6	3953.1	2804.1	2105.4	1804.5	1691.1	1673.1	1683.9	1685.7
22.5°	6784.3	6132.3	4630.3	3234.6	2233.2	1721.7	1577.6	1547.0	1561.5	1586.6	1590.2
25°	6548.4	5801.0	4075.6	2604.2	1783.0	1512.8	1442.6	1442.6	1475.0	1512.8	1514.6
27.5°	6353.8	5480.4	3522.7	2067.5	1493.0	1361.5	1338.1	1350.7	1395.7	1424.6	1426.3
30°	6193.5	5181.4	3000.4	1656.9	1312.9	1240.9	1235.4	1257.0	1289.5	1316.5	1318.4
32.5°	6072.9	4918.4	2512.3	1392.2	1188.7	1149.1	1147.2	1163.4	1181.4	1188.7	1195.8
35°	6026.0	4700.5	2065.7	1224.7	1105.8	1080.6	1080.6	1078.8	1086.0	1089.6	1093.2
37.5°	6063.9	4533.1	1719.9	1116.6	1044.5	1026.5	1015.8	1004.9	1001.4	1001.4	1003.1
40°	6224.2	4444.8	1462.4	1046.4	1001.4	974.3	954.5	941.9	929.3	932.9	936.5
42.5°	6564.5	4461.0	1287.7	999.5	963.5	925.7	896.8	882.5	873.5	884.3	882.5
45°	7106.6	4623.1	1176.1	967.2	925.7	877.1	850.1	835.6	835.6	851.8	857.2
47.5°	7864.9	4932.9	1116.6	941.9	896.8	839.2	812.2	801.5	805.0	832.1	833.9
50°	8790.6	5471.4	1105.8	929.3	882.5	812.2	781.6	770.8	779.9	808.6	812.2
52.5°	9811.7	6164.7	1158.1	931.1	869.8	796.0	756.4	740.2	749.2	772.6	779.9
55°	11022.0	7032.8	1293.1	938.3	851.8	787.0	738.4	702.4	713.2	729.4	731.2
57.5°	12257.4	8127.8	1530.8	940.1	837.5	770.8	707.8	660.9	660.9	671.8	677.2
60°	13766.7	9320.0	1844.2	941.9	839.2	747.4	666.3	614.1	606.9	612.3	614.1
62.5°	15265.1	10317.8	1896.5	936.5	857.2	724.0	621.3	567.3	554.7	552.9	549.3
65°	15926.0	10132.3	1554.3	911.3	877.1	709.6	585.3	522.3	500.6	493.5	493.5
67.5°	14849.0	8570.8	1168.8	877.1	864.5	695.2	551.1	484.5	459.3	444.8	444.8
69°	13836.9	7623.5	1050.0	853.7	832.1	671.8	529.5	464.7	434.0	417.8	412.4
70°	13055.3	6971.6	999.5	833.9	801.5	644.7	513.3	450.3	416.0	398.0	394.4
72.5°	10418.6	5469.5	875.3	758.2	682.6	542.1	455.7	405.2	372.8	353.0	347.6
75°	6004.4	2964.4	725.8	659.2	549.3	421.4	385.4	353.0	327.7	309.7	304.4
77.5°	1847.8	1145.4	525.9	520.5	403.4	326.0	308.0	295.4	277.4	257.5	253.9
80°	778.0	583.5	356.6	351.2	268.4	226.9	221.5	219.8	212.5	196.3	190.9
82.5°	426.8	329.6	248.5	216.1	162.1	131.4	136.9	138.7	133.3	117.1	106.2
85°	208.9	180.1	120.7	97.2	73.8	46.8	45.0	54.0	50.5	36.0	39.6
87.5°	41.5	50.5	32.4	14.4	7.2	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)