

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: P299849

Luminaire Tested: **GLNA-AF-06-LED-E1-SL3-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299849
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-06-LED-E1-SL3-7050
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Square Medium OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35481.5 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G5

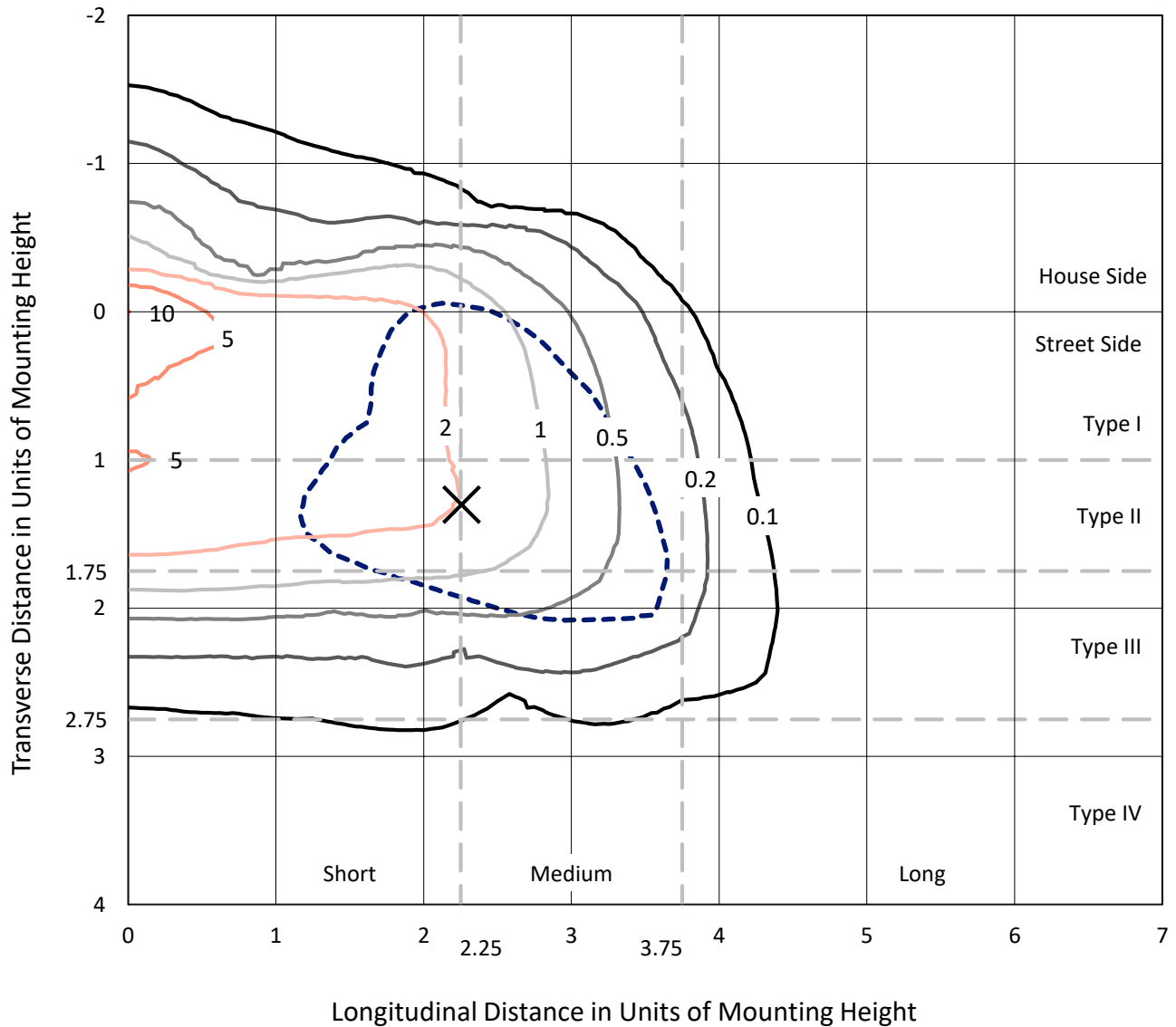
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

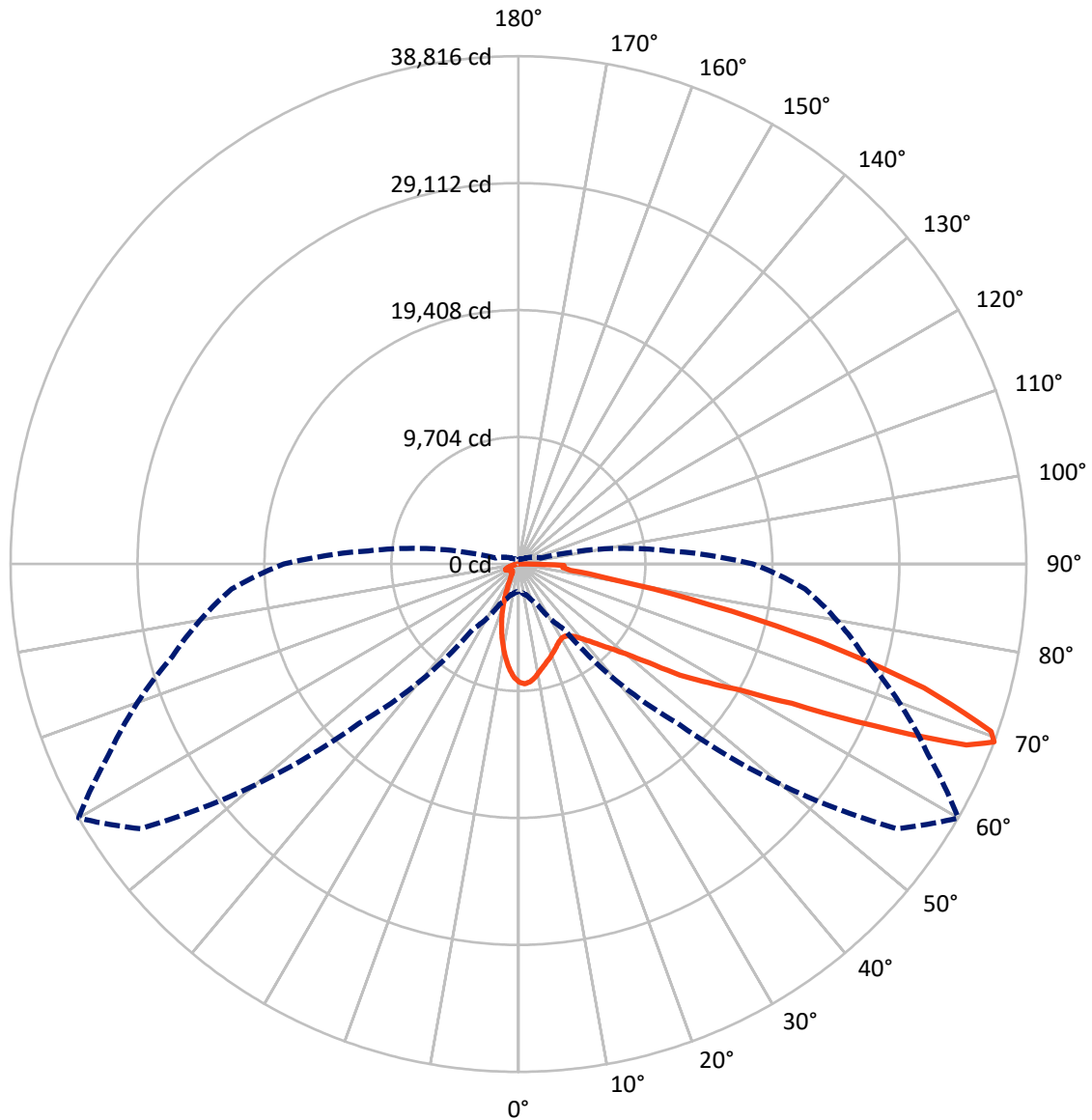
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5047.9	0.0	5047.9
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	30433.6	0.0	30433.6
	% Fixture	85.8	0.0	85.8
Total	Lumens	35481.5	0.0	35481.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	764.5	2.2
10°-20°	1628.8	4.6
20°-30°	2075.3	5.8
30°-40°	2853.0	8.0
40°-50°	4629.3	13.0
50°-60°	7424.2	20.9
60°-70°	9881.1	27.8
70°-80°	5335.0	15.0
80°-90°	890.2	2.5
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°	35481.5	100.0
0°-180°	35481.5	100.0

Coefficient of Utilization



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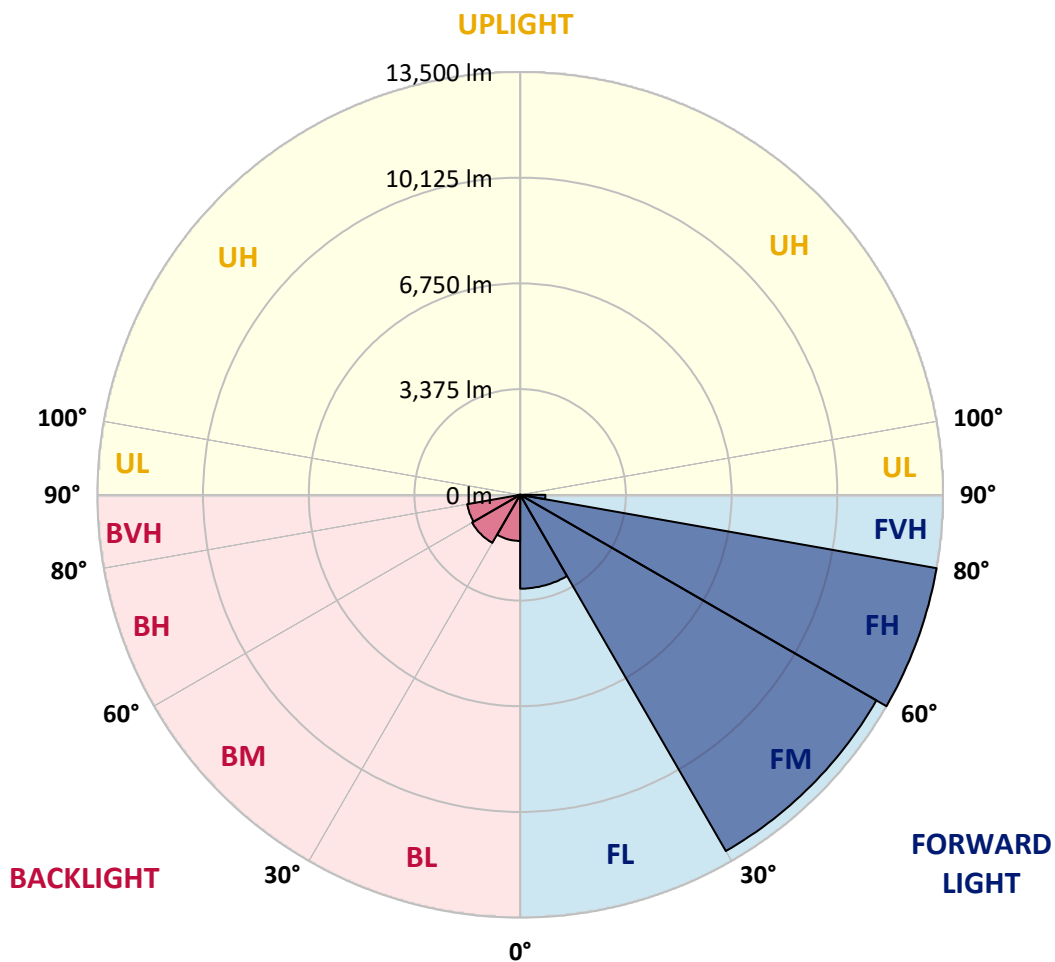
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2995.9	8.4			
FM (30°-60°)	13133.2	37.0			
FH (60°-80°)	13500.0	38.0			G5
FVH (80°-90°)	804.5	2.3			G5
BL (0°-30°)	1472.6	4.2	B3/2500		
BM (30°-60°)	1773.4	5.0	B2/2500		
BH (60°-80°)	1716.1	4.8	B3/2500		G3/2500
BVH (80°-90°)	85.7	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	9041.2	9041.2	9041.2	9041.2	9041.2	9041.2	9041.2	9041.2	9041.2	9041.2	9041.2
2.5°	9226.3	9246.9	9238.3	9233.2	9248.6	9224.6	9174.9	9159.5	9135.5	9078.9	8982.9
5°	8880.1	8941.8	8938.4	8984.7	9061.8	9082.4	9060.1	9063.5	9018.9	8948.7	8789.3
7.5°	8281.9	8307.6	8321.3	8422.5	8563.0	8676.1	8772.1	8803.0	8782.4	8722.4	8516.7
10°	7664.9	7685.5	7718.0	7836.3	8014.5	8170.5	8352.2	8456.8	8501.3	8491.0	8261.4
12.5°	7135.3	7155.8	7198.7	7332.4	7544.9	7736.9	8000.8	8131.1	8237.4	8300.8	8054.0
15°	6660.5	6705.1	6746.2	6900.5	7138.7	7390.7	7688.9	7853.4	8018.0	8160.2	7870.6
17.5°	6290.3	6334.9	6358.8	6499.4	6753.1	7061.6	7411.2	7604.9	7810.6	8043.7	7688.9
20°	6076.0	6096.6	6086.3	6165.2	6393.1	6720.5	7135.3	7359.8	7608.3	7934.0	7507.2
22.5°	6016.1	6017.8	5980.1	5971.5	6118.9	6394.8	6840.5	7113.0	7418.1	7862.0	7351.2
25°	6161.7	6156.6	6053.8	5969.8	5985.2	6146.3	6556.0	6873.0	7258.7	7846.6	7231.3
27.5°	6485.7	6501.1	6348.6	6190.9	6034.9	6029.8	6340.0	6674.2	7128.4	7916.8	7179.8
30°	6939.9	6965.6	6802.8	6602.2	6309.1	6067.5	6256.0	6556.0	7047.9	8062.5	7171.3
32.5°	7436.9	7464.4	7341.0	7130.1	6746.2	6300.6	6314.3	6566.2	7044.4	8266.5	7229.5
35°	7966.6	7997.4	7934.0	7755.7	7329.0	6730.8	6537.1	6732.5	7155.8	8578.4	7385.5
37.5°	8557.9	8605.9	8623.0	8453.3	7997.4	7298.1	6902.2	7047.9	7407.8	9012.1	7671.8
40°	9409.7	9476.6	9471.4	9228.0	8763.6	8064.3	7466.1	7503.8	7800.3	9591.4	8129.4
42.5°	11041.4	11055.1	10628.4	10098.7	9606.8	8869.8	8131.1	8100.2	8341.9	10325.0	8803.0
45°	13117.0	13060.5	12110.9	11087.7	10487.8	9795.4	8996.7	8845.8	9029.2	11219.7	9646.2
47.5°	14839.6	14709.3	13509.5	12097.2	11420.2	10801.5	10013.0	9749.1	9850.2	12234.4	10736.3
50°	15437.8	15340.1	14346.0	12937.1	12302.9	12028.7	11264.2	10890.6	10918.0	13444.4	12013.2
52.5°	15309.2	15295.5	14632.2	13490.7	13129.0	13317.6	13036.5	12530.9	12263.5	14788.2	13391.3
55°	15005.8	15035.0	14795.0	14135.1	14073.4	14561.9	15352.1	14978.4	14147.1	16143.9	14815.6
57.5°	13951.8	14027.2	14555.1	14945.9	15593.7	16320.5	17216.9	17110.6	16174.8	17609.4	16509.0
60°	11240.2	11415.1	12830.8	14788.2	17158.6	19431.3	19832.4	19585.6	18265.8	19427.9	18745.7
62.5°	7875.7	8057.4	9740.5	12803.4	16901.5	22945.0	24508.1	23443.7	21268.7	22106.8	21640.6
65°	4216.4	4303.8	5589.3	8883.5	14268.8	23670.0	31341.7	29722.0	26023.3	25409.7	24117.3
67.5°	2325.9	2373.9	2865.8	4485.5	9138.9	20843.6	35695.2	36919.0	31965.6	27608.7	23666.6
69°	2103.0	2147.6	2469.8	3397.1	6115.5	17234.0	35270.2	38816.4	34570.9	27391.0	22000.6
70°	2056.8	2097.9	2387.6	3131.4	4950.0	14205.4	33845.9	38331.3	35191.3	26611.2	20547.1
72.5°	1851.1	1895.7	2176.7	2812.6	4230.1	7082.1	26810.0	32409.5	31950.2	23073.5	15585.2
75°	1726.0	1767.1	2243.6	2754.4	4050.1	4482.0	17674.5	23886.0	23486.6	16140.5	8403.6
77.5°	738.7	735.3	1040.4	2331.0	4110.1	4339.8	9497.1	14921.9	13614.1	6898.7	2413.3
80°	493.6	485.1	493.6	685.6	3769.0	4363.8	4975.7	7574.1	5721.2	1758.5	1189.5
82.5°	425.1	418.2	433.6	418.2	1324.9	4980.8	4230.1	4027.8	2720.1	999.2	589.6
85°	286.2	274.2	373.6	375.4	625.6	4425.5	4764.8	3402.2	2200.7	593.0	291.4
87.5°	137.1	133.7	217.7	265.7	366.8	1798.0	5345.9	3486.2	2219.6	303.4	138.8
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°	9041.2	9041.2	9041.2	9041.2	9041.2	9041.2	9041.2	9041.2	9041.2	9041.2	9041.2
2.5°	8953.8	8883.5	8815.0	8732.7	8647.0	8551.0	8503.0	8455.0	8443.0	8429.3	8381.3
5°	8707.0	8607.6	8436.2	8247.6	8048.8	7855.1	7707.7	7615.2	7544.9	7508.9	7445.5
7.5°	8388.2	8242.5	7942.6	7616.9	7282.7	6977.6	6713.6	6547.4	6389.7	6316.0	6232.0
10°	8084.8	7867.1	7400.9	6921.0	6441.1	5980.1	5546.4	5239.6	4967.1	4814.6	4706.6
12.5°	7824.3	7526.1	6879.9	6230.3	5572.1	4915.7	4266.1	3755.3	3328.5	3104.0	2989.2
15°	7570.6	7210.7	6384.6	5560.1	4715.1	3822.2	2968.6	2389.3	2036.2	1895.7	1847.7
17.5°	7341.0	6879.9	5887.5	4884.8	3830.7	2750.9	1995.1	1676.3	1540.9	1494.6	1479.2
20°	7092.4	6545.7	5371.6	4178.7	2908.6	1923.1	1558.0	1417.5	1362.6	1348.9	1342.0
22.5°	6852.5	6216.6	4878.0	3422.8	2089.3	1484.3	1338.6	1280.3	1271.8	1283.8	1283.8
25°	6648.5	5921.8	4344.9	2632.7	1534.0	1249.5	1198.1	1184.4	1216.9	1261.5	1270.1
27.5°	6496.0	5680.1	3777.6	1943.6	1222.1	1086.7	1084.9	1107.2	1187.8	1273.5	1290.6
30°	6391.4	5450.4	3170.9	1402.0	1025.0	956.4	983.8	1031.8	1150.1	1271.8	1304.3
32.5°	6338.3	5280.8	2538.4	1084.9	877.6	839.8	886.1	944.4	1061.0	1174.1	1216.9
35°	6379.4	5155.6	1941.9	905.0	774.7	745.6	793.6	850.1	918.7	966.7	999.2
37.5°	6533.7	5105.9	1465.4	810.7	704.4	677.0	714.7	747.3	774.7	788.4	803.9
40°	6866.2	5159.1	1174.1	762.7	665.0	630.7	646.2	658.2	675.3	689.0	695.9
42.5°	7356.4	5318.5	1052.4	743.9	644.5	594.7	591.3	596.5	618.7	644.5	649.6
45°	8042.0	5599.6	1043.8	755.9	634.2	565.6	550.2	557.0	591.3	630.7	637.6
47.5°	8917.8	6028.0	1112.4	791.9	642.7	550.2	524.5	533.0	575.9	629.0	637.6
50°	9978.8	6626.2	1227.2	845.0	680.4	553.6	515.9	521.0	565.6	623.9	632.5
52.5°	11231.7	7474.6	1352.3	896.4	719.9	575.9	522.8	510.8	551.9	603.3	613.6
55°	12625.1	8563.0	1480.9	942.7	740.4	603.3	536.5	497.1	526.2	569.0	577.6
57.5°	14335.7	10085.0	1703.7	987.2	754.1	622.2	550.2	483.3	493.6	524.5	531.3
60°	16651.3	12237.8	2096.2	1061.0	785.0	629.0	548.5	471.3	461.1	478.2	481.6
62.5°	19426.2	14575.6	2423.6	1153.5	836.4	634.2	538.2	462.8	433.6	433.6	437.1
65°	21073.3	15201.2	2241.9	1230.6	879.3	629.0	526.2	454.2	413.1	394.2	395.9
67.5°	19676.4	13369.0	1921.4	1246.1	877.6	605.0	507.3	438.8	392.5	363.4	361.6
69°	17926.5	11535.0	1777.4	1204.9	836.4	574.2	483.3	421.6	377.1	346.2	344.5
70°	16515.9	10415.8	1683.1	1160.4	791.9	551.9	464.5	406.2	365.1	335.9	332.5
72.5°	12008.1	6825.0	1438.0	997.5	653.0	462.8	401.1	356.5	325.7	308.5	305.1
75°	6000.6	3254.8	1167.2	809.0	500.5	370.2	329.1	298.2	282.8	279.4	277.7
77.5°	1971.1	1491.2	834.7	603.3	371.9	289.7	265.7	243.4	240.0	250.2	246.8
80°	1083.2	867.3	529.6	399.4	253.7	212.5	209.1	197.1	202.2	219.4	216.0
82.5°	551.9	450.8	327.4	240.0	171.4	152.5	166.3	159.4	166.3	181.7	180.0
85°	272.5	246.8	207.4	145.7	113.1	97.7	118.3	123.4	126.8	138.8	138.8
87.5°	157.7	145.7	109.7	68.6	56.6	51.4	68.6	66.8	78.8	85.7	84.0
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)