

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: P299908

Luminaire Tested: **GLNA-AF-06-LED-E1-SL3-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299908
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-SL3-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Square Medium OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28664.8 lumens
Efficiency: N/A
Efficacy: 115.1 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 - G4

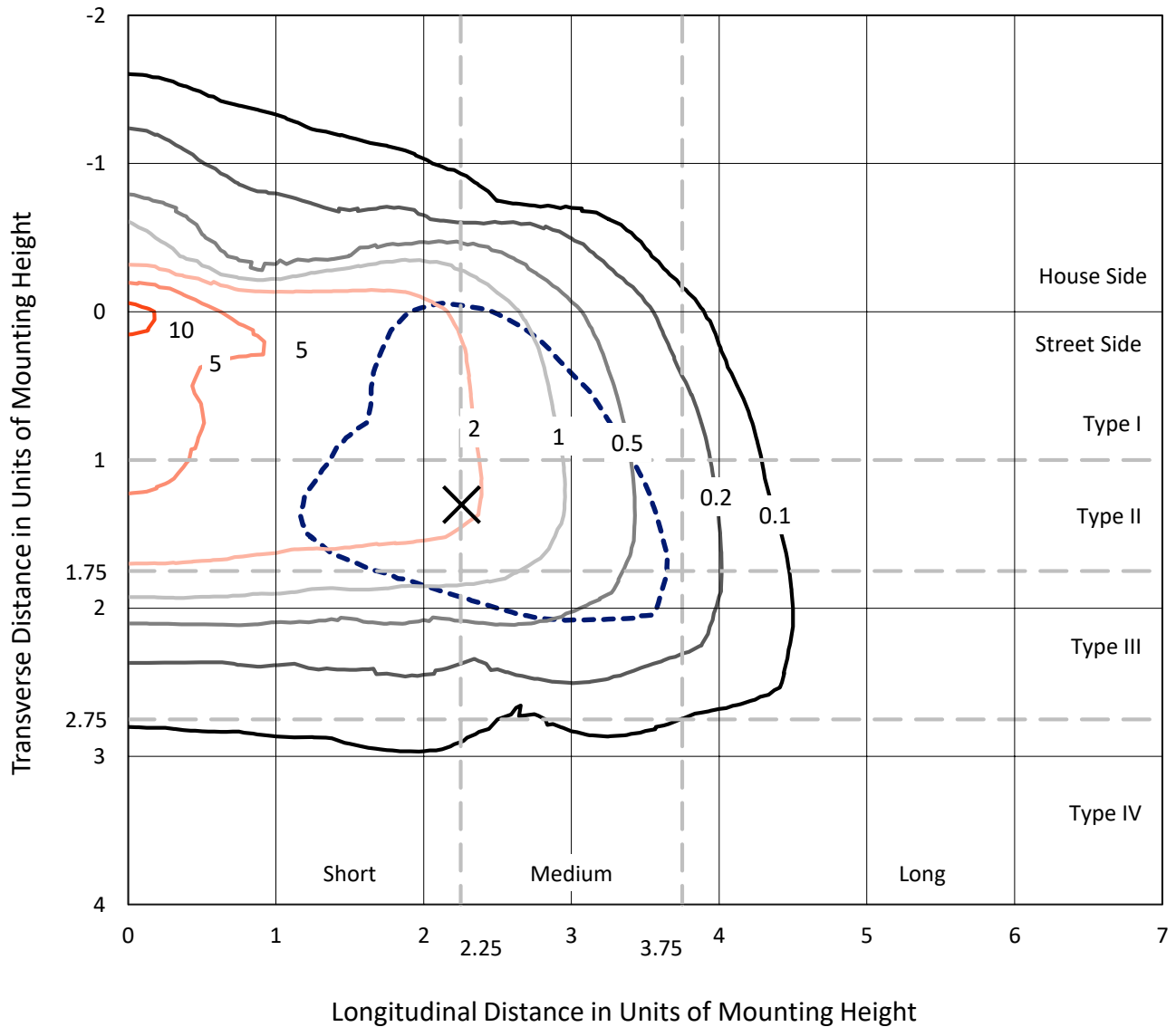
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

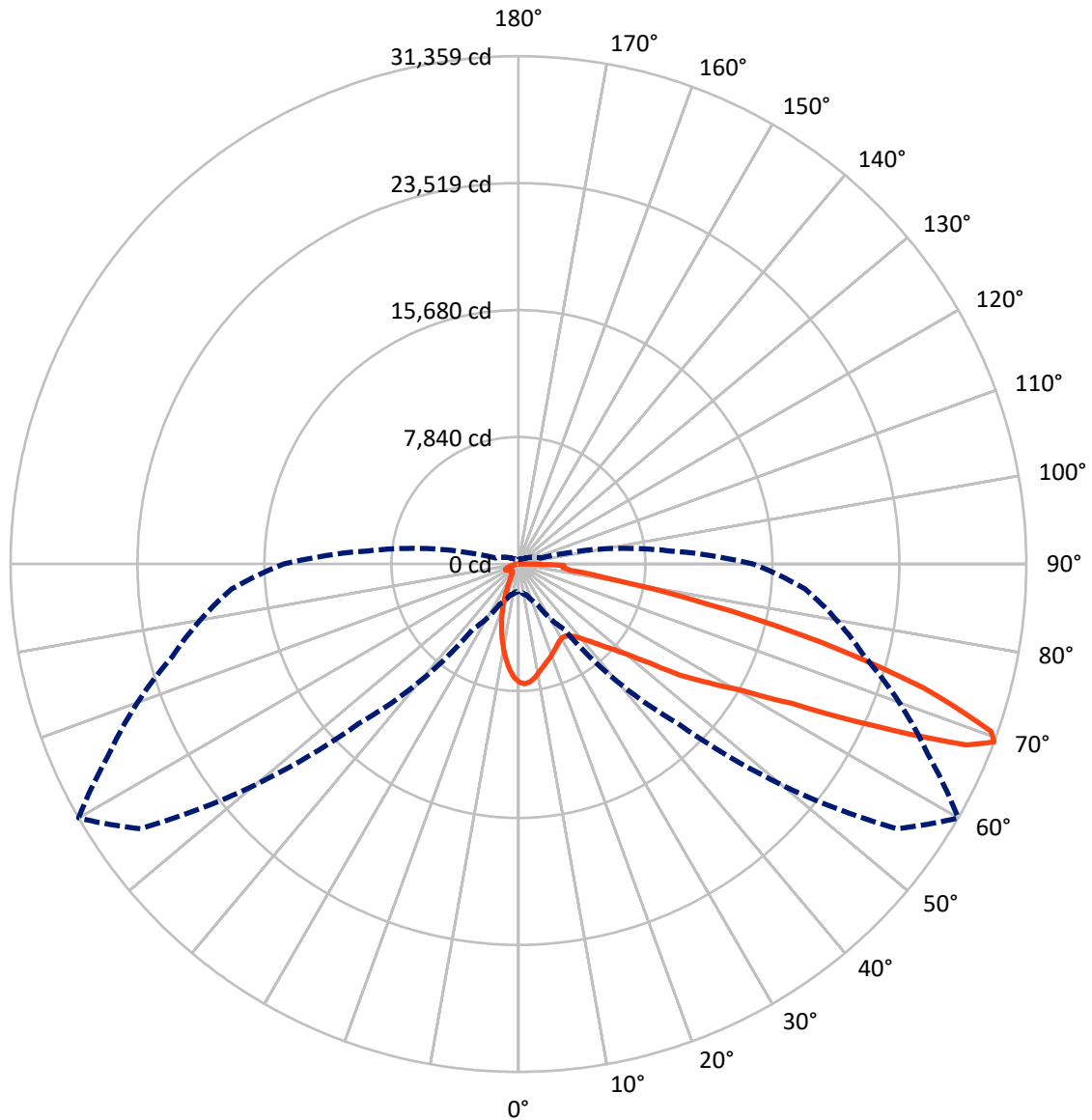
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 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	4078.1	0.0	4078.1
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	24586.7	0.0	24586.7
	% Fixture	85.8	0.0	85.8
Total	Lumens	28664.8	0.0	28664.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	617.6	2.2
10°-20°	1315.8	4.6
20°-30°	1676.6	5.8
30°-40°	2304.9	8.0
40°-50°	3739.9	13.0
50°-60°	5997.9	20.9
60°-70°	7982.8	27.8
70°-80°	4310.1	15.0
80°-90°	719.2	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°	28664.8	100.0
0°-180°	28664.8	100.0

Coefficient of Utilization



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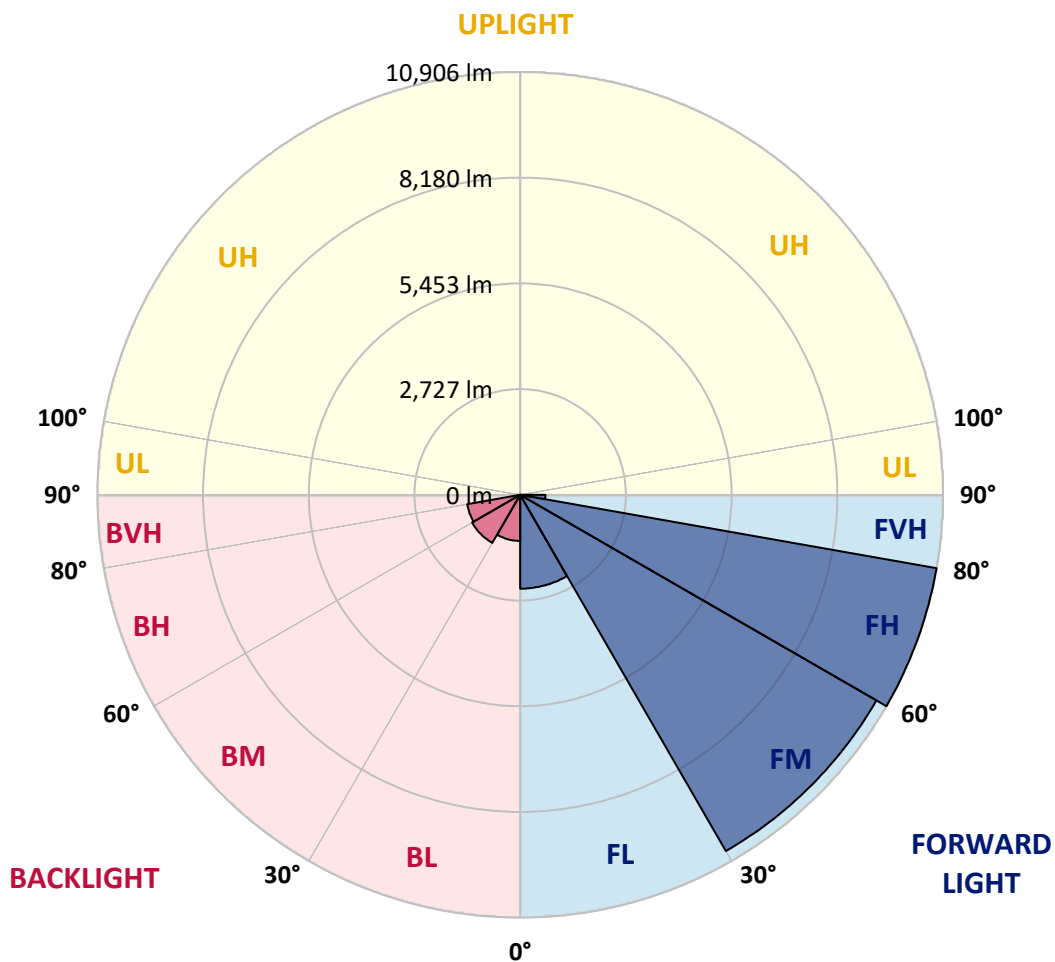
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2420.3	8.4			
FM	(30°-60°)	10610.0	37.0			
FH	(60°-80°)	10906.4	38.0			G4/12000
FVH	(80°-90°)	649.9	2.3			G4/750
BL	(0°-30°)	1189.7	4.2	B3/2500		
BM	(30°-60°)	1432.7	5.0	B2/2500		
BH	(60°-80°)	1386.4	4.8	B3/2500		G3/2500
BVH	(80°-90°)	69.3	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-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	7304.2	7304.2	7304.2	7304.2	7304.2	7304.2	7304.2	7304.2	7304.2	7304.2	7304.2
2.5°	7453.8	7470.4	7463.5	7459.3	7471.8	7452.4	7412.2	7399.8	7380.4	7334.7	7257.1
5°	7174.1	7223.9	7221.1	7258.5	7320.8	7337.5	7319.5	7322.2	7286.2	7229.5	7100.7
7.5°	6690.8	6711.6	6722.7	6804.4	6917.9	7009.3	7086.8	7111.8	7095.1	7046.7	6880.5
10°	6192.3	6208.9	6235.2	6330.8	6474.8	6600.8	6747.6	6832.0	6868.1	6859.7	6674.2
12.5°	5764.5	5781.1	5815.7	5923.7	6095.4	6250.5	6463.7	6569.0	6654.8	6706.0	6506.6
15°	5380.9	5416.9	5450.1	5574.8	5767.2	5970.8	6211.7	6344.6	6477.6	6592.5	6358.5
17.5°	5081.8	5117.8	5137.2	5250.7	5455.7	5704.9	5987.4	6143.9	6310.0	6498.3	6211.7
20°	4908.7	4925.3	4917.0	4980.7	5164.9	5429.4	5764.5	5945.8	6146.6	6409.7	6064.9
22.5°	4860.3	4861.6	4831.2	4824.3	4943.3	5166.3	5526.3	5746.5	5992.9	6351.6	5938.9
25°	4978.0	4973.8	4890.7	4822.9	4835.3	4965.5	5296.4	5552.6	5864.2	6339.1	5842.0
27.5°	5239.7	5252.1	5128.9	5001.5	4875.5	4871.3	5122.0	5392.0	5758.9	6395.9	5800.5
30°	5606.6	5627.4	5495.8	5333.8	5097.0	4901.8	5054.1	5296.4	5693.8	6513.6	5793.5
32.5°	6008.2	6030.3	5930.6	5760.3	5450.1	5090.1	5101.2	5304.7	5691.1	6678.3	5840.6
35°	6436.0	6461.0	6409.7	6265.7	5920.9	5437.7	5281.2	5439.1	5781.1	6930.4	5966.6
37.5°	6913.7	6952.5	6966.4	6829.3	6461.0	5896.0	5576.1	5693.8	5984.6	7280.7	6197.9
40°	7601.9	7655.9	7651.8	7455.2	7079.9	6515.0	6031.7	6062.2	6301.7	7748.7	6567.6
42.5°	8920.2	8931.2	8586.4	8158.6	7761.2	7165.8	6569.0	6544.0	6739.3	8341.4	7111.8
45°	10597.0	10551.3	9784.2	8957.5	8472.9	7913.5	7268.2	7146.4	7294.5	9064.2	7793.0
47.5°	11988.6	11883.4	10914.1	9773.1	9226.2	8726.3	8089.3	7876.1	7957.8	9883.9	8673.7
50°	12471.9	12393.0	11589.8	10451.6	9939.3	9717.7	9100.2	8798.3	8820.5	10861.5	9705.3
52.5°	12368.0	12357.0	11821.1	10898.9	10606.7	10759.0	10531.9	10123.5	9907.4	11947.1	10818.6
55°	12122.9	12146.5	11952.6	11419.5	11369.7	11764.3	12402.6	12100.8	11429.2	13042.4	11969.2
57.5°	11271.4	11332.3	11758.8	12074.5	12597.9	13185.0	13909.2	13823.3	13067.3	14226.3	13337.3
60°	9080.8	9222.0	10365.8	11947.1	13862.1	15698.2	16022.2	15822.8	14756.6	15695.4	15144.3
62.5°	6362.6	6509.4	7869.2	10343.6	13654.4	18536.8	19799.6	18939.8	17182.6	17859.7	17483.1
65°	3406.3	3477.0	4515.5	7176.8	11527.5	19122.5	25320.4	24011.9	21023.7	20528.0	19483.9
67.5°	1879.0	1917.8	2315.2	3623.7	7383.2	16839.2	28837.5	29826.2	25824.4	22304.5	19119.8
69°	1699.0	1735.0	1995.3	2744.5	4940.6	13923.0	28494.1	31359.0	27929.1	22128.7	17773.8
70°	1661.6	1694.9	1928.9	2529.8	3999.0	11476.3	27343.4	30967.2	28430.4	21498.7	16599.6
72.5°	1495.5	1531.5	1758.6	2272.3	3417.4	5721.5	21659.3	26183.1	25812.0	18640.7	12591.0
75°	1394.4	1427.6	1812.6	2225.2	3272.0	3621.0	14278.9	19297.0	18974.4	13039.6	6789.1
77.5°	596.8	594.0	840.5	1883.2	3320.5	3506.0	7672.6	12055.1	10998.6	5573.4	1949.6
80°	398.8	391.9	398.8	553.9	3044.9	3525.4	4019.7	6118.9	4622.1	1420.7	961.0
82.5°	343.4	337.9	350.3	337.9	1070.4	4023.9	3417.4	3254.0	2197.5	807.3	476.3
85°	231.2	221.6	301.9	303.2	505.4	3575.3	3849.4	2748.6	1777.9	479.1	235.4
87.5°	110.8	108.0	175.9	214.6	296.3	1452.5	4318.8	2816.5	1793.2	245.1	112.2
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°	7304.2	7304.2	7304.2	7304.2	7304.2	7304.2	7304.2	7304.2	7304.2	7304.2	7304.2
2.5°	7233.6	7176.8	7121.4	7055.0	6985.7	6908.2	6869.4	6830.7	6821.0	6809.9	6771.1
5°	7034.2	6953.9	6815.4	6663.1	6502.5	6346.0	6226.9	6152.2	6095.4	6066.3	6015.1
7.5°	6776.7	6659.0	6416.6	6153.6	5883.5	5637.1	5423.8	5289.5	5162.1	5102.6	5034.7
10°	6531.6	6355.7	5979.1	5591.4	5203.7	4831.2	4480.8	4233.0	4012.8	3889.6	3802.4
12.5°	6321.1	6080.2	5558.1	5033.3	4501.6	3971.3	3446.5	3033.9	2689.1	2507.7	2414.9
15°	6116.2	5825.4	5158.0	4491.9	3809.3	3087.9	2398.3	1930.3	1645.0	1531.5	1492.7
17.5°	5930.6	5558.1	4756.4	3946.4	3094.8	2222.4	1611.8	1354.2	1244.8	1207.4	1195.0
20°	5729.8	5288.1	4339.6	3375.9	2349.8	1553.6	1258.7	1145.1	1100.8	1089.7	1084.2
22.5°	5536.0	5022.3	3940.8	2765.2	1687.9	1199.1	1081.4	1034.4	1027.4	1037.1	1037.1
25°	5371.2	4784.1	3510.2	2126.9	1239.3	1009.4	967.9	956.8	983.1	1019.1	1026.1
27.5°	5248.0	4588.9	3051.9	1570.2	987.3	877.9	876.5	894.5	959.6	1028.8	1042.7
30°	5163.5	4403.3	2561.7	1132.7	828.0	772.7	794.8	833.6	929.1	1027.4	1053.7
32.5°	5120.6	4266.2	2050.7	876.5	709.0	678.5	715.9	763.0	857.1	948.5	983.1
35°	5153.8	4165.1	1568.9	731.1	625.9	602.3	641.1	686.8	742.2	781.0	807.3
37.5°	5278.4	4125.0	1183.9	655.0	569.1	547.0	577.4	603.7	625.9	637.0	649.4
40°	5547.1	4167.9	948.5	616.2	537.3	509.6	522.0	531.7	545.6	556.6	562.2
42.5°	5943.1	4296.7	850.2	601.0	520.6	480.5	477.7	481.9	499.9	520.6	524.8
45°	6497.0	4523.8	843.3	610.6	512.3	456.9	444.5	450.0	477.7	509.6	515.1
47.5°	7204.5	4869.9	898.7	639.7	519.3	444.5	423.7	430.6	465.3	508.2	515.1
50°	8061.7	5353.2	991.4	682.7	549.7	447.3	416.8	420.9	456.9	504.0	510.9
52.5°	9073.9	6038.6	1092.5	724.2	581.6	465.3	422.3	412.6	445.9	487.4	495.7
55°	10199.6	6917.9	1196.4	761.6	598.2	487.4	433.4	401.6	425.1	459.7	466.6
57.5°	11581.5	8147.5	1376.4	797.6	609.3	502.6	444.5	390.5	398.8	423.7	429.3
60°	13452.2	9886.7	1693.5	857.1	634.2	508.2	443.1	380.8	372.5	386.3	389.1
62.5°	15694.0	11775.4	1957.9	931.9	675.7	512.3	434.8	373.9	350.3	350.3	353.1
65°	17024.7	12280.8	1811.2	994.2	710.3	508.2	425.1	366.9	333.7	318.5	319.9
67.5°	15896.2	10800.6	1552.2	1006.7	709.0	488.8	409.9	354.5	317.1	293.6	292.2
69°	14482.4	9318.9	1435.9	973.4	675.7	463.9	390.5	340.6	304.6	279.7	278.3
70°	13342.8	8414.7	1359.8	937.4	639.7	445.9	375.3	328.2	294.9	271.4	268.6
72.5°	9701.1	5513.8	1161.8	805.9	527.6	373.9	324.0	288.0	263.1	249.2	246.5
75°	4847.8	2629.5	943.0	653.6	404.3	299.1	265.9	240.9	228.5	225.7	224.3
77.5°	1592.4	1204.7	674.3	487.4	300.5	234.0	214.6	196.6	193.9	202.2	199.4
80°	875.1	700.7	427.9	322.6	204.9	171.7	168.9	159.2	163.4	177.2	174.5
82.5°	445.9	364.2	264.5	193.9	138.5	123.2	134.3	128.8	134.3	146.8	145.4
85°	220.2	199.4	167.5	117.7	91.4	78.9	95.5	99.7	102.5	112.2	112.2
87.5°	127.4	117.7	88.6	55.4	45.7	41.5	55.4	54.0	63.7	69.2	67.8
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)