

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: P299210

Luminaire Tested: **GLNA-AF-10-LED-E1-SL2-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299210
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-10-LED-E1-SL2-7030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Narrow OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44946.8 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G5

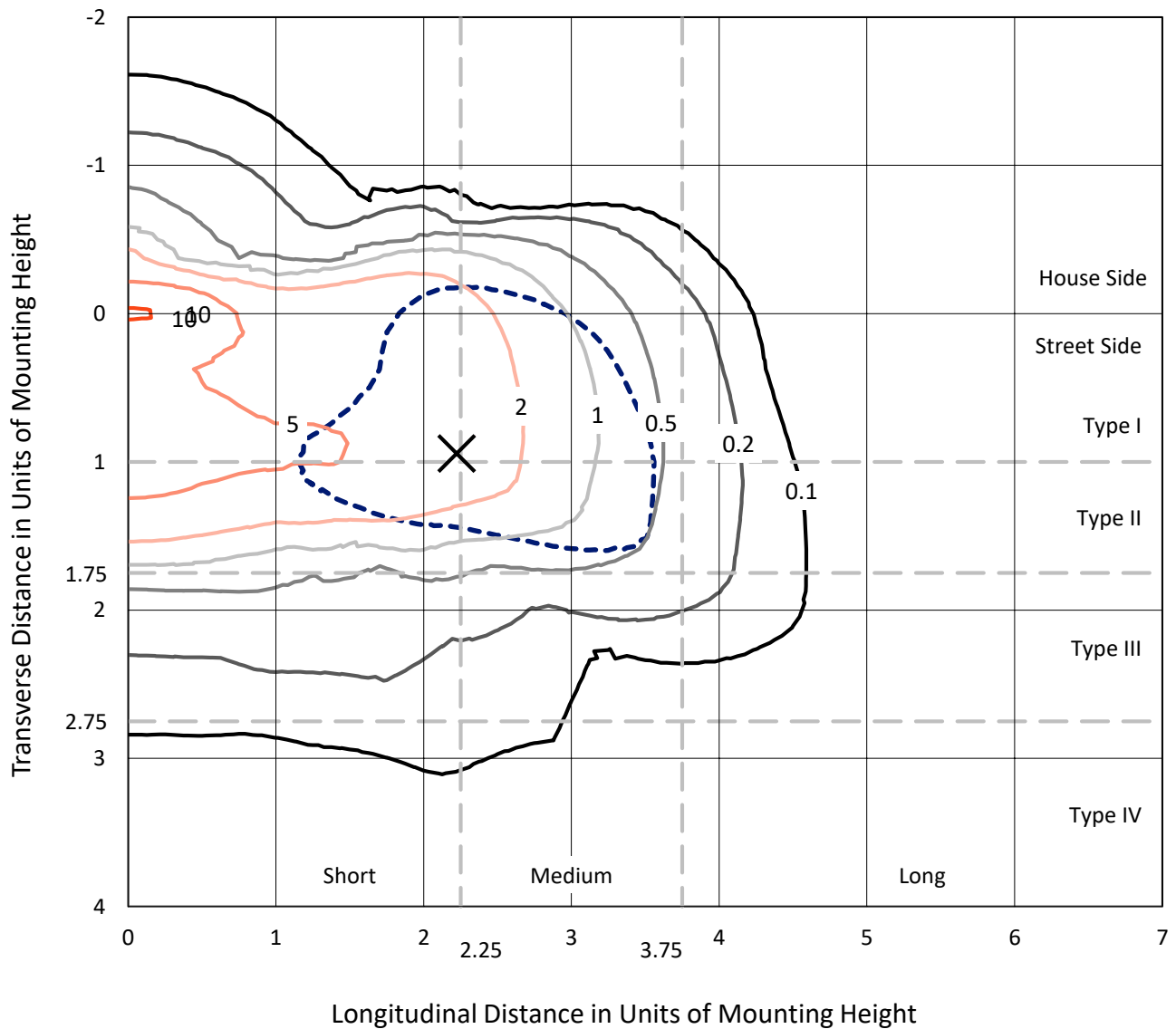
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

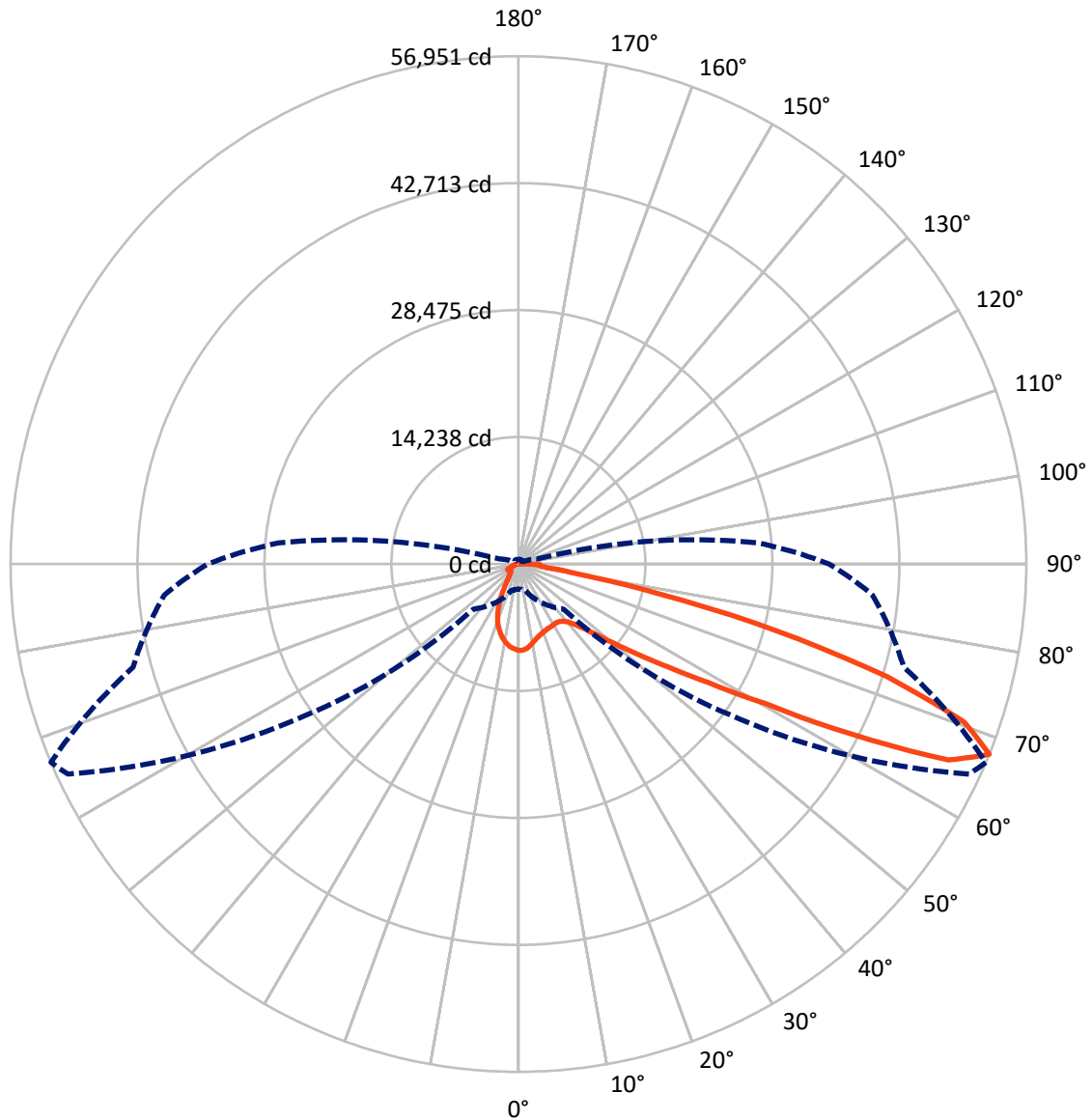
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.8 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7447.2	0.0	7447.2
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	37499.7	0.0	37499.7
	% Fixture	83.4	0.0	83.4
Total	Lumens	44946.8	0.0	44946.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	827.1	1.8
10°-20°	1913.8	4.3
20°-30°	2594.2	5.8
30°-40°	3688.0	8.2
40°-50°	6170.1	13.7
50°-60°	9761.1	21.7
60°-70°	12434.6	27.7
70°-80°	6513.3	14.5
80°-90°	1044.6	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°	44946.8	100.0
0°-180°	44946.8	100.0

Coefficient of Utilization



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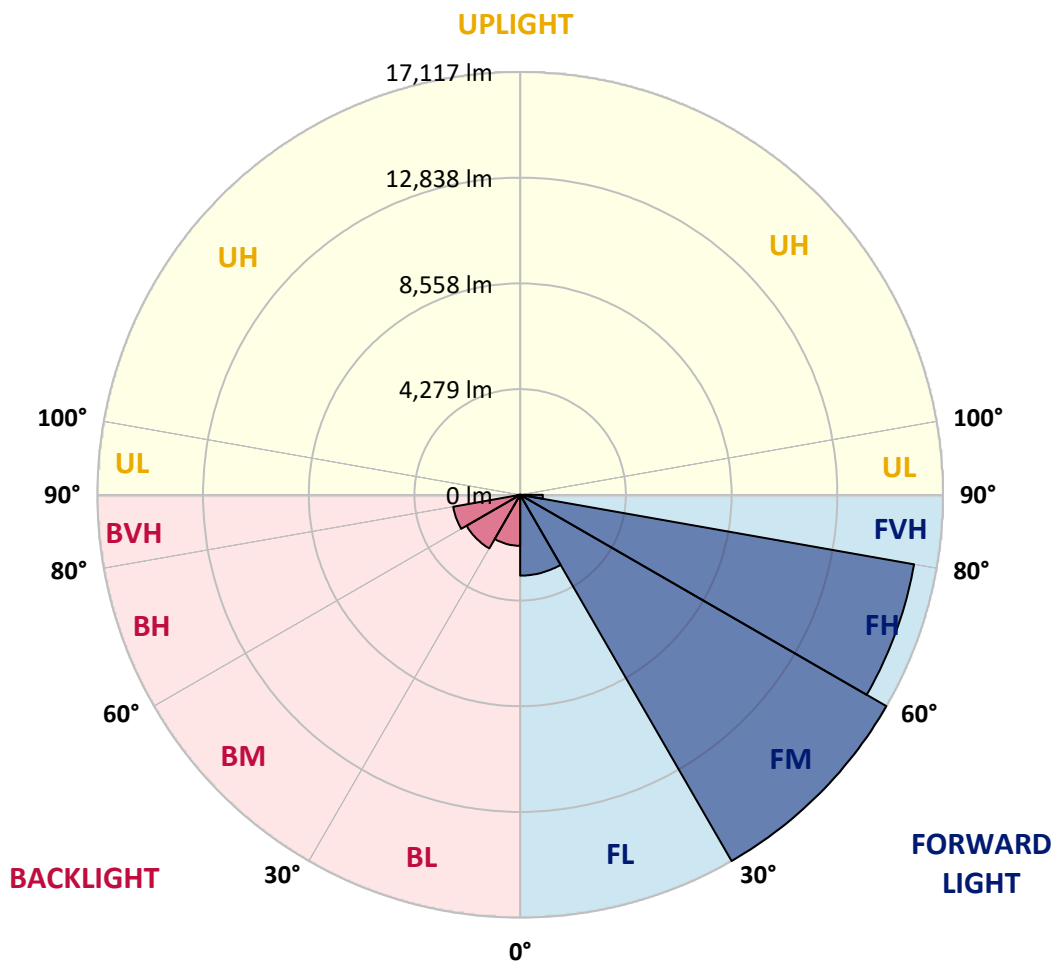
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3271.0	7.3			
FM	(30°-60°)	17116.7	38.1			
FH	(60°-80°)	16193.4	36.0			G5
FVH	(80°-90°)	918.5	2.0			G5
BL	(0°-30°)	2064.2	4.6	B3/2500		
BM	(30°-60°)	2502.5	5.6	B3/5000		
BH	(60°-80°)	2754.5	6.1	B4/5000		G4/5000
BVH	(80°-90°)	126.1	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	9694.9	9694.9	9694.9	9694.9	9694.9	9694.9	9694.9	9694.9	9694.9	9694.9	9694.9
2.5°	9296.0	9311.5	9360.2	9391.3	9530.9	9590.7	9632.9	9675.0	9681.6	9701.6	9681.6
5°	8320.7	8353.9	8444.8	8546.8	8817.2	9030.0	9253.8	9486.6	9528.7	9679.4	9721.5
7.5°	7564.9	7556.0	7631.4	7753.3	8030.3	8325.1	8717.5	9180.7	9271.6	9610.7	9774.7
10°	7013.0	7006.3	7086.1	7212.5	7476.2	7755.5	8198.8	8832.7	8961.3	9502.1	9825.7
12.5°	6605.1	6607.4	6687.1	6826.8	7095.0	7376.5	7826.4	8495.8	8659.8	9375.7	9878.9
15°	6334.7	6352.5	6416.7	6565.2	6826.8	7108.3	7549.4	8243.1	8427.1	9276.0	9938.7
17.5°	6243.8	6272.7	6294.8	6403.4	6627.3	6908.8	7341.0	8056.9	8252.0	9207.3	9991.9
20°	6328.1	6361.3	6319.2	6356.9	6498.7	6747.0	7177.0	7910.6	8110.1	9129.7	9998.6
22.5°	6689.4	6720.4	6596.3	6487.7	6478.8	6629.5	7041.8	7795.4	8001.5	9072.1	10000.8
25°	7325.5	7345.4	7137.1	6884.4	6638.4	6587.4	6946.5	7715.6	7935.0	9021.1	9958.7
27.5°	8105.7	8121.2	7881.8	7509.5	7015.2	6687.1	6913.2	7669.1	7897.4	8976.8	9887.8
30°	9054.4	9127.5	8806.1	8336.2	7615.9	6981.9	6979.7	7644.7	7855.2	8901.4	9748.1
32.5°	10025.2	10056.2	9834.6	9358.0	8424.9	7500.6	7165.9	7662.4	7844.2	8810.5	9570.8
35°	11009.3	11049.2	10905.1	10521.7	9530.9	8260.9	7529.4	7766.6	7912.9	8779.5	9446.7
37.5°	12283.8	12337.0	12137.5	11694.2	10876.3	9291.5	8134.5	8028.1	8123.4	8868.2	9409.0
40°	14298.6	14274.2	13691.3	13030.7	12348.1	10610.3	8998.9	8471.4	8526.8	9154.1	9524.3
42.5°	16643.6	16583.8	15579.7	14542.4	13966.1	12206.2	10142.7	9240.5	9229.5	9717.1	9929.9
45°	18514.3	18465.6	17561.2	16282.3	15821.3	14023.7	11621.1	10386.5	10304.5	10610.3	10679.0
47.5°	19527.3	19529.5	19008.6	17964.6	17953.6	16333.3	13520.6	12044.4	11902.5	12046.6	11973.5
50°	19172.6	19219.2	19163.8	18831.3	19899.6	19361.0	16000.8	14356.2	14070.3	14212.1	13930.6
52.5°	17457.1	17516.9	17845.0	18354.7	20717.5	23020.5	19644.7	17228.8	16896.3	16845.3	16532.8
55°	14416.0	14489.2	15158.6	16543.9	20037.1	25478.5	25394.3	20890.4	20360.7	19879.7	19746.7
57.5°	9936.5	10058.4	11135.6	13192.5	17836.1	26221.1	32241.0	26110.2	25033.0	23352.9	23384.0
60°	5601.1	5742.9	7013.0	8881.5	13394.2	25414.3	37449.8	34016.5	31742.3	27420.2	27650.7
62.5°	3561.9	3714.8	4679.0	6170.7	8037.0	21069.9	39584.3	45008.0	42119.9	32433.9	32660.0
65°	2883.7	2950.1	3404.5	5093.5	5836.0	12693.8	37964.0	54062.4	52985.2	38797.4	37742.4
67.5°	2814.9	2837.1	3072.1	4275.6	5596.6	7134.9	30281.7	55755.8	56950.5	44739.8	39859.1
70°	2781.7	2859.3	3462.2	4080.6	5359.5	6017.8	18197.4	51114.5	53000.7	46293.6	37042.0
72.5°	1349.8	1345.4	1742.2	3690.5	6037.7	6241.6	9349.2	41357.5	43250.3	40107.4	30439.0
75°	1088.3	995.2	950.9	1352.1	5805.0	6445.5	5957.9	28457.5	29827.3	26890.4	18711.6
77.5°	1032.9	922.1	844.5	846.7	2453.7	6835.7	5046.9	15750.4	16149.3	12146.4	5126.7
80°	855.6	753.6	698.2	786.9	1188.0	6509.8	5457.0	7128.2	6540.9	2983.4	1706.7
82.5°	594.0	540.8	525.3	660.5	950.9	4639.1	6345.8	3830.1	3211.7	1493.9	1052.8
85°	379.0	323.6	359.1	481.0	740.3	2141.1	6536.4	2985.6	2373.9	948.7	594.0
87.5°	175.1	141.9	177.3	266.0	483.2	738.1	6219.5	3353.5	2444.8	500.9	374.6
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°	9694.9	9694.9	9694.9	9694.9	9694.9	9694.9	9694.9	9694.9	9694.9	9694.9	9694.9
2.5°	9699.4	9657.2	9624.0	9561.9	9493.2	9426.7	9366.9	9291.5	9269.4	9249.4	9280.4
5°	9730.4	9688.3	9566.4	9375.7	9165.2	8967.9	8770.6	8602.2	8498.0	8440.4	8473.6
7.5°	9776.9	9717.1	9464.4	9114.2	8735.2	8389.4	8032.6	7746.6	7536.1	7436.3	7465.1
10°	9819.0	9703.8	9291.5	8766.2	8212.1	7697.9	7134.9	6669.4	6323.6	6141.9	6186.2
12.5°	9836.8	9652.8	9049.9	8331.8	7571.5	6817.9	5989.0	5293.0	4796.5	4614.7	4577.0
15°	9854.5	9595.2	8783.9	7837.5	6798.0	5731.8	4570.4	3737.0	3324.7	3233.9	3213.9
17.5°	9858.9	9495.4	8482.5	7301.1	5891.4	4439.6	3125.2	2595.5	2597.7	2744.0	2761.7
20°	9812.4	9346.9	8116.8	6634.0	4805.3	3069.8	2145.6	2054.7	2389.4	2755.1	2799.4
22.5°	9706.0	9149.7	7702.3	5856.0	3561.9	2021.4	1660.2	1759.9	2192.1	2639.8	2690.8
25°	9570.8	8910.3	7212.5	4953.9	2358.3	1445.2	1392.0	1513.9	1806.4	2105.7	2134.5
27.5°	9386.8	8626.6	6662.8	3921.0	1531.6	1190.3	1225.7	1307.7	1427.4	1560.4	1573.7
30°	9149.7	8287.5	6075.4	2859.3	1157.0	1070.6	1121.5	1165.9	1216.9	1292.2	1298.9
32.5°	8877.0	7961.6	5472.5	1974.9	1026.2	1008.5	1048.4	1070.6	1110.5	1157.0	1161.4
35°	8648.7	7651.3	4847.5	1396.4	970.8	962.0	988.6	997.4	1035.1	1086.1	1090.5
37.5°	8518.0	7398.6	4202.5	1126.0	933.1	919.8	935.4	935.4	988.6	1063.9	1075.0
40°	8526.8	7259.0	3557.5	1017.4	902.1	884.4	886.6	886.6	955.3	1037.3	1044.0
42.5°	8768.4	7294.5	2985.6	975.3	877.7	857.8	846.7	853.3	911.0	964.2	968.6
45°	9335.9	7544.9	2449.2	948.7	853.3	846.7	822.3	820.1	842.3	866.6	866.6
47.5°	10266.8	8039.2	2085.7	930.9	833.4	831.2	802.4	773.6	771.3	780.2	780.2
50°	11780.6	8890.3	1841.9	911.0	820.1	802.4	769.1	724.8	709.3	715.9	715.9
52.5°	14050.3	10408.6	1748.8	884.4	791.3	762.5	724.8	680.5	667.2	669.4	669.4
55°	17027.1	12740.4	1735.5	853.3	760.3	713.7	682.7	649.4	633.9	638.3	638.3
57.5°	20664.3	15965.4	1972.7	804.6	718.1	664.9	647.2	625.0	614.0	620.6	618.4
60°	25086.2	20185.6	2925.8	753.6	676.0	620.6	620.6	602.9	594.0	600.7	598.5
62.5°	30179.7	25033.0	4113.8	715.9	631.7	585.2	594.0	585.2	576.3	580.7	578.5
65°	34696.9	28191.5	3852.3	687.1	587.4	551.9	567.4	563.0	556.3	560.8	558.6
67.5°	34827.7	27021.2	2163.3	656.1	545.3	518.7	540.8	538.6	534.2	538.6	536.4
70°	31081.8	22816.5	1219.1	598.5	500.9	478.8	509.8	507.6	503.1	512.0	509.8
72.5°	24902.3	16557.2	891.0	527.5	456.6	436.6	472.1	469.9	469.9	483.2	476.5
75°	14329.6	8520.2	711.5	452.2	410.1	394.5	425.6	427.8	432.2	449.9	436.6
77.5°	4085.0	2655.4	580.7	383.5	352.4	345.8	376.8	381.2	383.5	403.4	385.7
80°	1518.3	1223.5	478.8	321.4	288.1	290.4	319.2	325.8	328.0	348.0	325.8
82.5°	968.6	806.8	387.9	248.2	226.1	223.9	259.3	268.2	268.2	270.4	257.1
85°	565.2	483.2	292.6	179.5	159.6	152.9	192.8	208.3	201.7	197.3	188.4
87.5°	379.0	332.5	179.5	99.7	86.4	82.0	113.0	124.1	119.7	113.0	106.4
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)