

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: P299150

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299150
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
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Narrow OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55635.5 lumens
Efficiency: N/A
Efficacy: 99.7 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

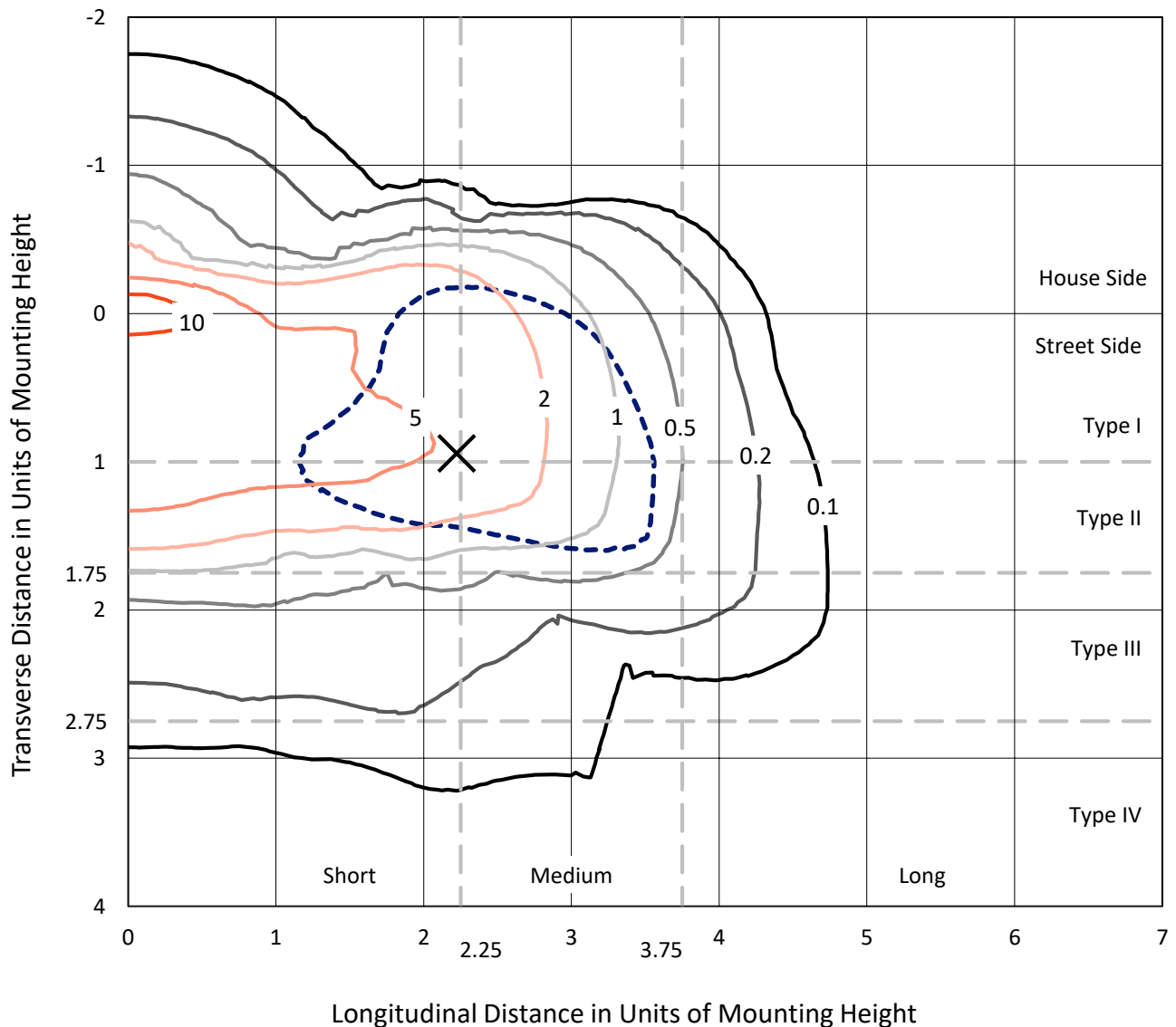
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

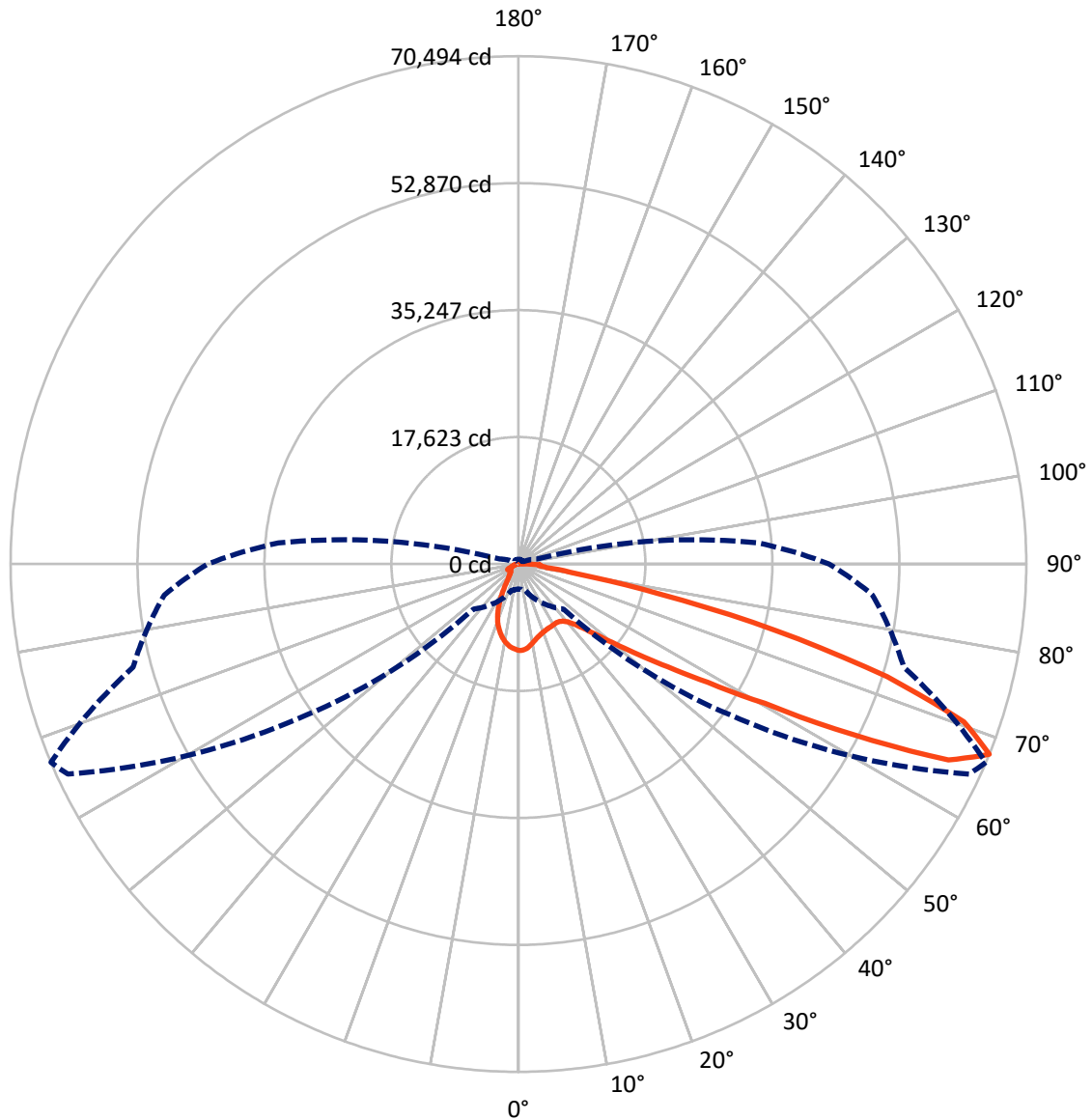
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.3 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	9218.2	0.0	9218.2
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	46417.3	0.0	46417.3
	% Fixture	83.4	0.0	83.4
Total	Lumens	55635.5	0.0	55635.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1023.8	1.8
10°-20°	2369.0	4.3
20°-30°	3211.2	5.8
30°-40°	4565.0	8.2
40°-50°	7637.4	13.7
50°-60°	12082.3	21.7
60°-70°	15391.7	27.7
70°-80°	8062.1	14.5
80°-90°	1293.0	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°	55635.5	100.0
0°-180°	55635.5	100.0



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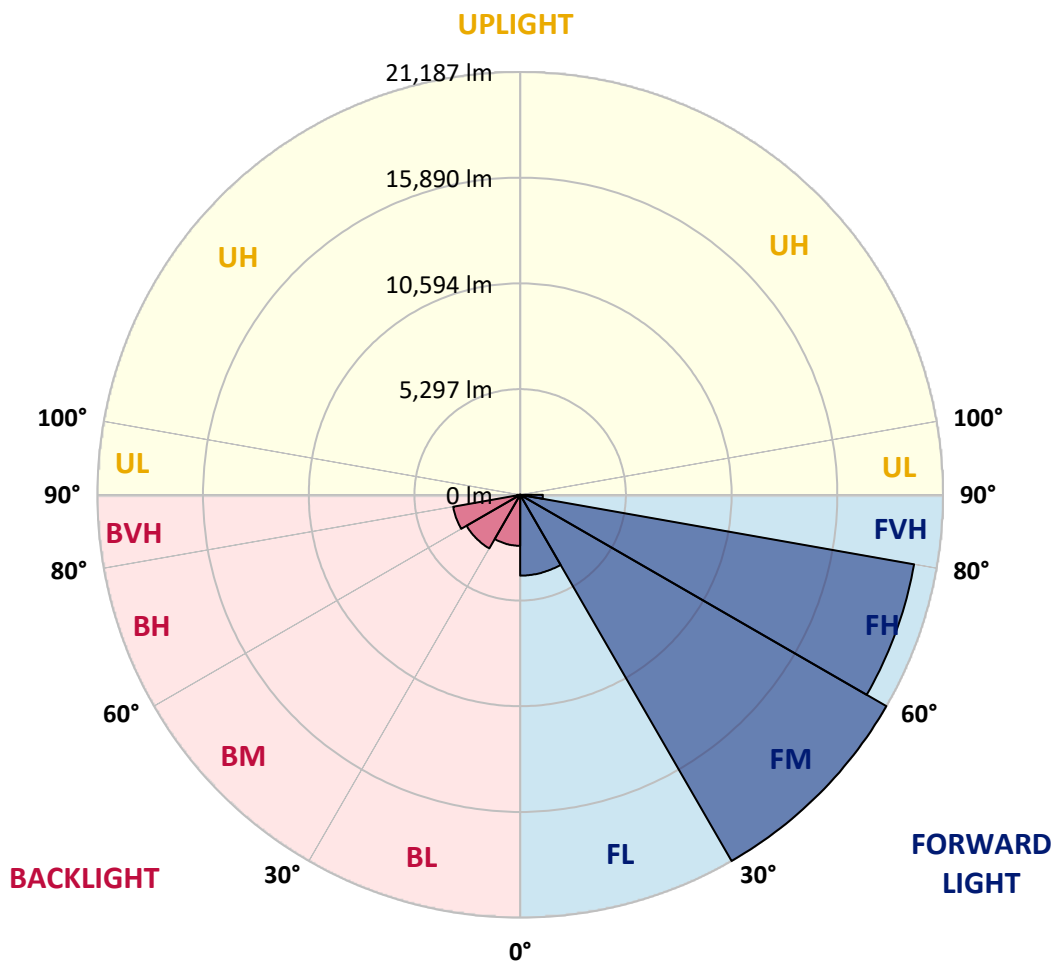
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4048.9	7.3			
FM	(30°-60°)	21187.1	38.1			
FH	(60°-80°)	20044.3	36.0			G5
FVH	(80°-90°)	1137.0	2.0			G5
BL	(0°-30°)	2555.0	4.6	B4/5000		
BM	(30°-60°)	3097.6	5.6	B3/5000		
BH	(60°-80°)	3409.5	6.1	B4/5000		G4/5000
BVH	(80°-90°)	156.1	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°	12000.4	12000.4	12000.4	12000.4	12000.4	12000.4	12000.4	12000.4	12000.4	12000.4	12000.4
2.5°	11506.6	11525.8	11586.2	11624.6	11797.4	11871.5	11923.6	11975.7	11984.0	12008.7	11984.0
5°	10299.4	10340.6	10453.1	10579.3	10914.0	11177.4	11454.5	11742.5	11794.7	11981.2	12033.4
7.5°	9363.9	9352.9	9446.2	9597.1	9940.0	10304.9	10790.5	11363.9	11476.4	11896.2	12099.2
10°	8680.7	8672.5	8771.2	8927.6	9254.1	9599.8	10148.5	10933.2	11092.3	11761.7	12162.3
12.5°	8175.9	8178.6	8277.4	8450.2	8782.2	9130.6	9687.6	10516.2	10719.2	11605.4	12228.2
15°	7841.2	7863.1	7942.7	8126.5	8450.2	8798.7	9344.6	10203.4	10431.1	11481.9	12302.2
17.5°	7728.7	7764.3	7791.8	7926.2	8203.3	8551.7	9086.7	9972.9	10214.4	11396.8	12368.1
20°	7832.9	7874.1	7822.0	7868.6	8044.2	8351.5	8883.7	9791.8	10038.8	11300.8	12376.3
22.5°	8280.1	8318.5	8164.9	8030.5	8019.5	8206.1	8716.4	9649.2	9904.3	11229.5	12379.0
25°	9067.5	9092.2	8834.3	8521.6	8217.0	8153.9	8598.4	9550.4	9822.0	11166.4	12326.9
27.5°	10033.3	10052.5	9756.2	9295.3	8683.4	8277.4	8557.2	9492.8	9775.4	11111.5	12239.1
30°	11207.5	11298.1	10900.3	10318.6	9427.0	8642.3	8639.5	9462.6	9723.3	11018.2	12066.3
32.5°	12409.2	12447.6	12173.3	11583.4	10428.4	9284.3	8870.0	9484.6	9709.5	10905.7	11846.8
35°	13627.4	13676.8	13498.4	13023.8	11797.4	10225.3	9320.0	9613.5	9794.6	10867.3	11693.2
37.5°	15204.9	15270.8	15023.9	14475.1	13462.8	11501.1	10069.0	9937.3	10055.2	10977.1	11646.5
40°	17698.9	17668.7	16947.1	16129.5	15284.5	13133.5	11138.9	10486.0	10554.6	11331.0	11789.2
42.5°	20601.6	20527.5	19284.6	18000.7	17287.3	15108.9	12554.6	11438.0	11424.3	12027.9	12291.3
45°	22917.2	22856.8	21737.4	20154.4	19583.7	17358.7	14384.6	12856.4	12754.9	13133.5	13218.6
47.5°	24171.0	24173.7	23529.0	22236.7	22223.0	20217.5	16735.9	14908.6	14733.0	14911.4	14820.8
50°	23732.0	23789.6	23721.0	23309.5	24631.9	23965.2	19805.9	17770.2	17416.3	17591.9	17243.4
52.5°	21608.5	21682.5	22088.6	22719.6	25644.3	28494.9	24316.4	21325.9	20914.3	20851.2	20464.4
55°	17844.3	17934.8	18763.4	20478.1	24802.0	31537.5	31433.2	25858.3	25202.6	24607.2	24442.6
57.5°	12299.5	12450.4	13783.8	16329.8	22077.6	32456.6	39908.2	32319.4	30986.0	28906.4	28944.8
60°	6933.0	7108.6	8680.7	10993.5	16579.5	31457.9	46355.6	42105.8	39290.9	33940.9	34226.2
62.5°	4408.9	4598.2	5791.7	7638.1	9948.2	26080.5	48997.7	55711.2	52136.3	40146.9	40426.7
65°	3569.4	3651.7	4214.1	6304.8	7223.9	15712.5	46992.1	66918.7	65585.4	48023.7	46717.7
67.5°	3484.4	3511.8	3802.6	5292.4	6927.5	8831.6	37482.8	69014.8	70493.6	55379.2	49337.9
70°	3443.2	3539.2	4285.5	5050.9	6634.0	7448.8	22524.8	63269.8	65604.6	57302.5	45850.8
72.5°	1670.8	1665.4	2156.5	4568.1	7473.5	7725.9	11572.4	51192.5	53535.5	49645.1	37677.6
75°	1347.1	1231.9	1177.0	1673.6	7185.4	7978.3	7374.8	35224.9	36920.4	33285.2	23161.3
77.5°	1278.5	1141.3	1045.3	1048.0	3037.1	8461.2	6247.1	19495.9	19989.7	15034.8	6345.9
80°	1059.0	932.8	864.2	974.0	1470.6	8057.9	6754.7	8823.4	8096.3	3692.9	2112.6
82.5°	735.3	669.4	650.2	817.6	1177.0	5742.3	7854.9	4740.9	3975.5	1849.2	1303.2
85°	469.2	400.6	444.5	595.4	916.4	2650.3	8090.8	3695.6	2938.4	1174.3	735.3
87.5°	216.7	175.6	219.5	329.2	598.1	913.6	7698.5	4151.0	3026.2	620.0	463.7
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°	12000.4	12000.4	12000.4	12000.4	12000.4	12000.4	12000.4	12000.4	12000.4	12000.4	12000.4
2.5°	12005.9	11953.8	11912.6	11835.8	11750.8	11668.5	11594.4	11501.1	11473.7	11449.0	11487.4
5°	12044.3	11992.2	11841.3	11605.4	11344.7	11100.5	10856.4	10647.8	10518.9	10447.6	10488.7
7.5°	12101.9	12027.9	11715.1	11281.6	10812.5	10384.5	9942.7	9588.8	9328.2	9204.7	9240.4
10°	12154.1	12011.4	11501.1	10850.9	10165.0	9528.5	8831.6	8255.4	7827.4	7602.5	7657.3
12.5°	12176.0	11948.3	11202.1	10313.1	9372.1	8439.3	7413.2	6551.7	5937.1	5712.1	5665.5
15°	12198.0	11877.0	10872.8	9701.3	8414.6	7094.9	5657.3	4625.7	4115.4	4002.9	3978.2
17.5°	12203.5	11753.5	10499.7	9037.4	7292.4	5495.4	3868.5	3212.7	3215.5	3396.6	3418.5
20°	12145.8	11569.7	10047.0	8211.5	5948.1	3799.9	2655.8	2543.3	2957.6	3410.3	3465.1
22.5°	12014.2	11325.5	9534.0	7248.5	4408.9	2502.1	2054.9	2178.4	2713.4	3267.6	3330.7
25°	11846.8	11029.2	8927.6	6131.9	2919.2	1788.8	1723.0	1873.9	2236.0	2606.4	2642.1
27.5°	11619.1	10678.0	8247.2	4853.4	1895.8	1473.3	1517.2	1618.7	1766.9	1931.5	1947.9
30°	11325.5	10258.3	7520.2	3539.2	1432.2	1325.2	1388.3	1443.1	1506.2	1599.5	1607.7
32.5°	10988.1	9855.0	6773.9	2444.5	1270.3	1248.3	1297.7	1325.2	1374.5	1432.2	1437.6
35°	10705.5	9470.9	6000.2	1728.5	1201.7	1190.7	1223.6	1234.6	1281.3	1344.4	1349.8
37.5°	10543.6	9158.1	5201.8	1393.7	1155.0	1138.6	1157.8	1157.8	1223.6	1316.9	1330.6
40°	10554.6	8985.2	4403.5	1259.3	1116.6	1094.7	1097.4	1097.4	1182.5	1284.0	1292.2
42.5°	10853.6	9029.1	3695.6	1207.2	1086.5	1061.8	1048.0	1056.3	1127.6	1193.5	1198.9
45°	11556.0	9339.2	3031.7	1174.3	1056.3	1048.0	1017.9	1015.1	1042.6	1072.7	1072.7
47.5°	12708.3	9951.0	2581.7	1152.3	1031.6	1028.8	993.2	957.5	954.8	965.7	965.7
50°	14582.1	11004.5	2279.9	1127.6	1015.1	993.2	952.0	897.2	877.9	886.2	886.2
52.5°	17391.6	12883.9	2164.7	1094.7	979.5	943.8	897.2	842.3	825.8	828.6	828.6
55°	21076.2	15770.1	2148.2	1056.3	941.0	883.4	845.0	803.9	784.7	790.2	790.2
57.5°	25578.4	19762.0	2441.8	995.9	888.9	823.1	801.1	773.7	760.0	768.2	765.5
60°	31051.9	24985.8	3621.5	932.8	836.8	768.2	768.2	746.3	735.3	743.5	740.8
62.5°	37356.6	30986.0	5092.1	886.2	781.9	724.3	735.3	724.3	713.3	718.8	716.1
65°	42948.1	34895.6	4768.3	850.5	727.0	683.2	702.4	696.9	688.6	694.1	691.4
67.5°	43109.9	33447.0	2677.7	812.1	674.9	642.0	669.4	666.7	661.2	666.7	663.9
70°	38473.3	28242.4	1509.0	740.8	620.0	592.6	631.0	628.3	622.8	633.8	631.0
72.5°	30824.2	20494.6	1102.9	653.0	565.2	540.5	584.4	581.6	581.6	598.1	589.9
75°	17737.3	10546.3	880.7	559.7	507.6	488.4	526.8	529.5	535.0	556.9	540.5
77.5°	5056.4	3286.8	718.8	474.6	436.2	428.0	466.4	471.9	474.6	499.3	477.4
80°	1879.4	1514.5	592.6	397.8	356.7	359.4	395.1	403.3	406.1	430.7	403.3
82.5°	1198.9	998.7	480.1	307.3	279.8	277.1	321.0	332.0	332.0	334.7	318.3
85°	699.6	598.1	362.2	222.2	197.5	189.3	238.7	257.9	249.7	244.2	233.2
87.5°	469.2	411.5	222.2	123.5	107.0	101.5	139.9	153.6	148.2	139.9	131.7
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)