

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: P191098

Luminaire Tested: **GLEON-AF-10-LED-E1-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191098
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: GLEON-AF-10-LED-E1-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 59041.6 lumens
Efficiency: N/A
Efficacy: 105.8 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 (A_{in}): 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

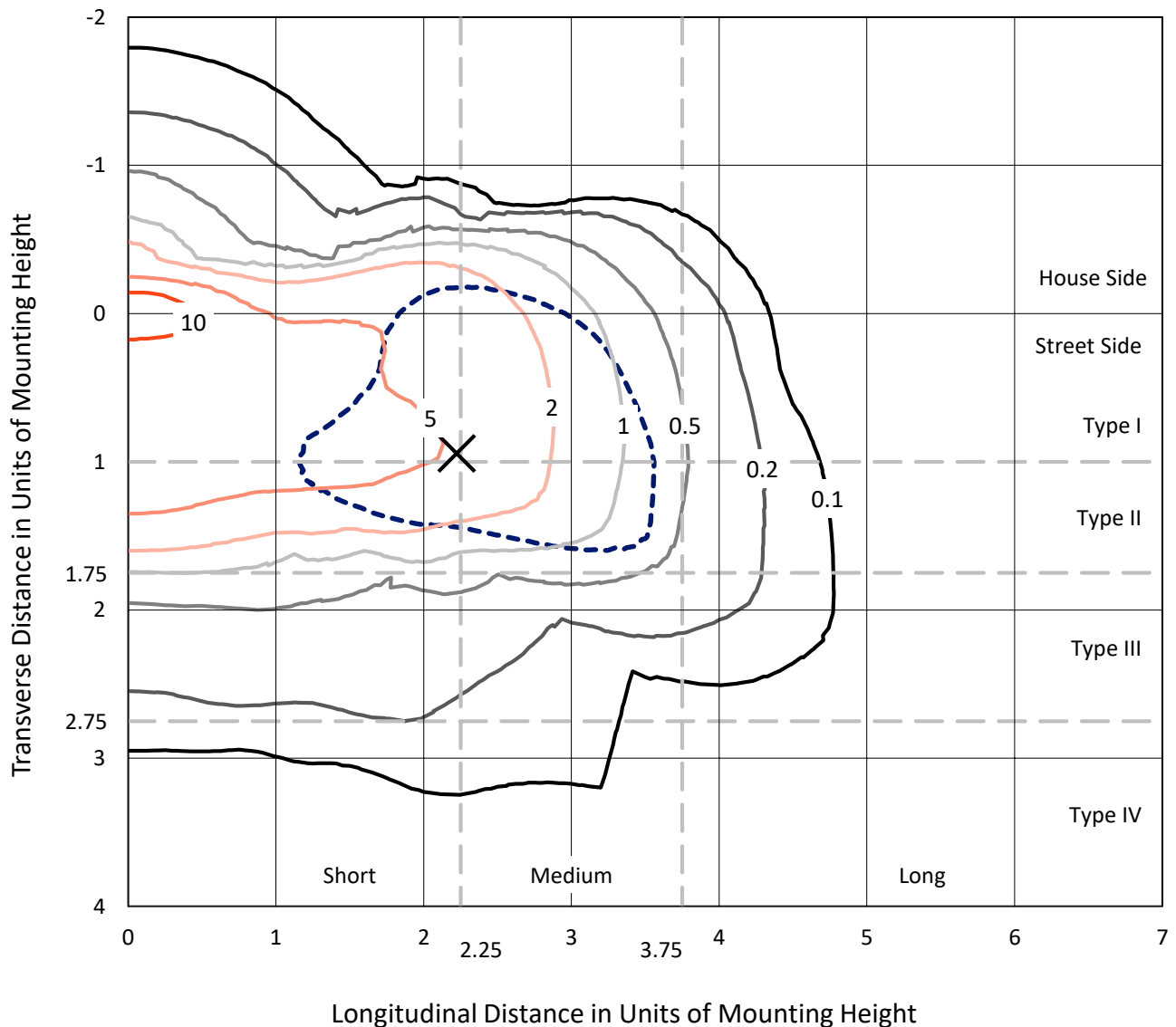


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

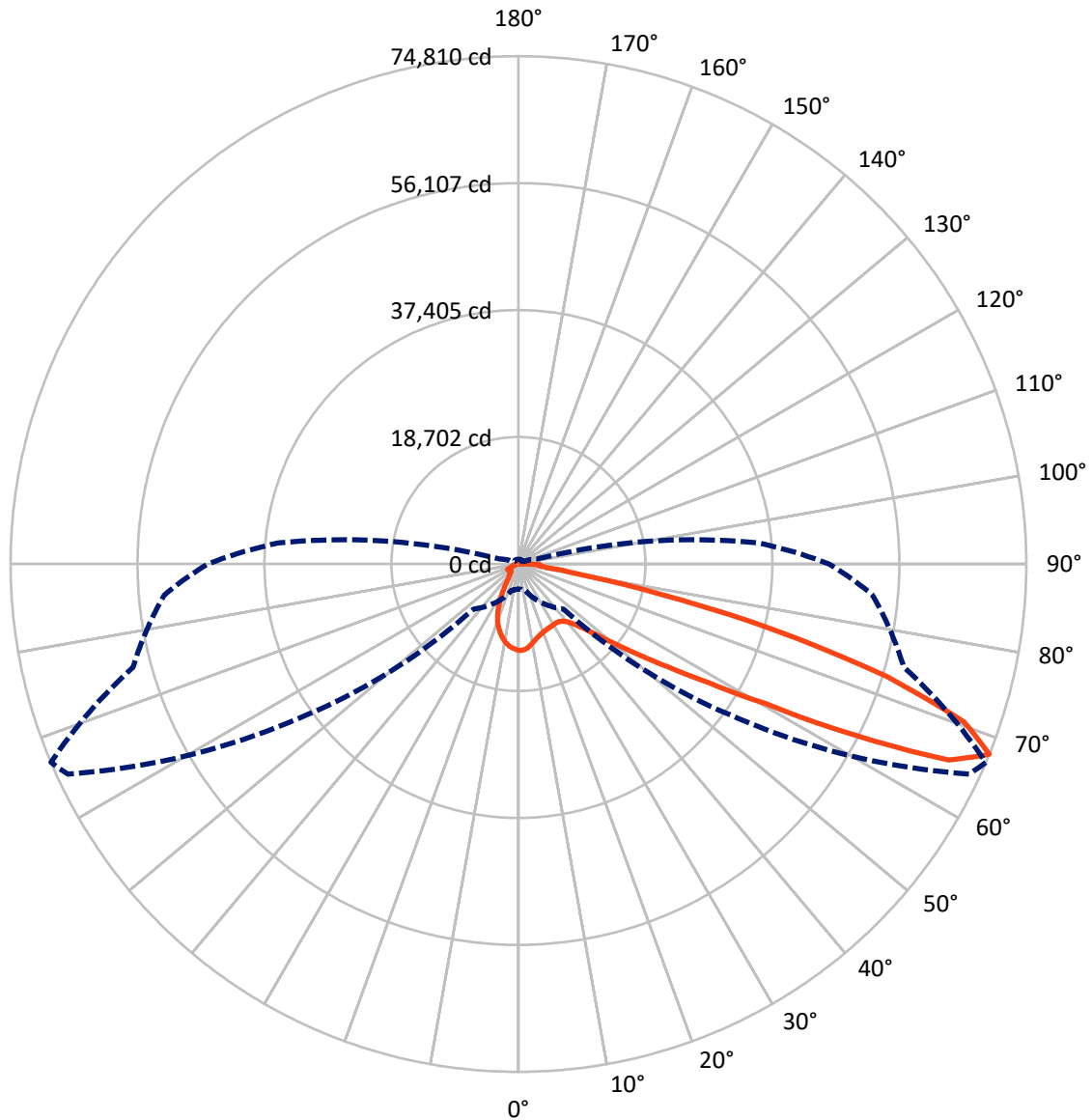


Based on 30 foot mounting height. Maximum calculated value = 14.2 fc
 Type II - Short - Semi-Cutoff

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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	9782.5	0.0	9782.5
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	49259.1	0.0	49259.1
	% Fixture	83.4	0.0	83.4
Total	Lumens	59041.6	0.0	59041.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1086.5	1.8
10°-20°	2514.0	4.3
20°-30°	3407.8	5.8
30°-40°	4844.5	8.2
40°-50°	8105.0	13.7
50°-60°	12822.0	21.7
60°-70°	16334.0	27.7
70°-80°	8555.7	14.5
80°-90°	1372.2	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°	59041.6	100.0
0°-180°	59041.6	100.0



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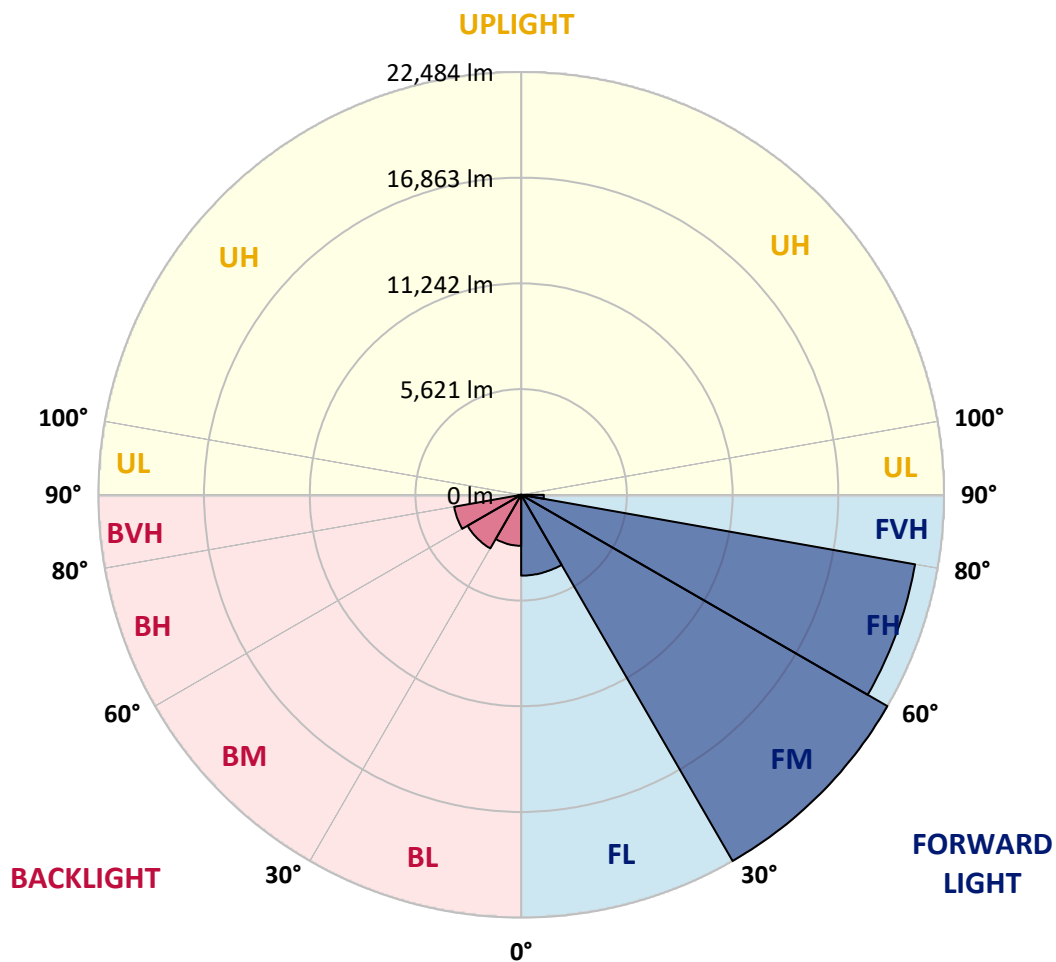
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4296.8	7.3			
FM (30°-60°)	22484.3	38.1			
FH (60°-80°)	21271.5	36.0			G5
FVH (80°-90°)	1206.6	2.0			G5
BL (0°-30°)	2711.5	4.6	B4/5000		
BM (30°-60°)	3287.2	5.6	B3/5000		
BH (60°-80°)	3618.2	6.1	B4/5000		G4/5000
BVH (80°-90°)	165.6	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°	12735.1	12735.1	12735.1	12735.1	12735.1	12735.1	12735.1	12735.1	12735.1	12735.1	12735.1
2.5°	12211.1	12231.4	12295.5	12336.3	12519.7	12598.3	12653.6	12708.9	12717.6	12743.9	12717.6
5°	10930.0	10973.6	11093.0	11227.0	11582.2	11861.6	12155.7	12461.5	12516.7	12714.8	12770.1
7.5°	9937.1	9925.5	10024.5	10184.6	10548.6	10935.8	11451.1	12059.7	12179.0	12624.5	12840.0
10°	9212.2	9203.4	9308.2	9474.2	9820.6	10187.6	10769.8	11602.5	11771.4	12481.8	12906.9
12.5°	8676.5	8679.3	8784.2	8967.6	9319.9	9689.7	10280.7	11160.0	11375.4	12315.9	12976.8
15°	8321.2	8344.5	8428.9	8624.0	8967.6	9337.4	9916.8	10828.0	11069.8	12184.9	13055.4
17.5°	8201.8	8239.7	8268.8	8411.5	8705.5	9075.3	9643.1	10583.6	10839.7	12094.6	13125.3
20°	8312.5	8356.2	8300.8	8350.3	8536.7	8862.7	9427.6	10391.3	10653.4	11992.7	13134.0
22.5°	8787.0	8827.9	8664.8	8522.1	8510.4	8708.5	9250.0	10239.9	10510.7	11917.0	13136.9
25°	9622.7	9648.9	9375.2	9043.3	8720.1	8653.1	9124.8	10135.1	10423.4	11850.1	13081.6
27.5°	10647.6	10667.9	10353.5	9864.3	9215.0	8784.2	9081.1	10074.0	10373.8	11791.8	12988.4
30°	11893.7	11989.8	11567.6	10950.4	10004.2	9171.4	9168.5	10042.0	10318.5	11692.8	12805.0
32.5°	13169.0	13209.8	12918.5	12292.6	11066.8	9852.7	9413.1	10065.2	10304.0	11573.5	12572.1
35°	14461.7	14514.1	14324.9	13821.2	12519.7	10851.4	9890.5	10202.1	10394.2	11532.6	12409.0
37.5°	16135.8	16205.7	15943.7	15361.3	14287.0	12205.2	10685.4	10545.6	10670.8	11649.2	12359.6
40°	18782.4	18750.4	17984.7	17117.0	16220.3	13937.6	11820.9	11128.0	11200.8	12024.7	12511.0
42.5°	21862.9	21784.2	20465.4	19102.7	18345.7	16033.9	13323.3	12138.2	12123.7	12764.3	13043.7
45°	24320.2	24256.2	23068.3	21388.3	20782.7	18421.4	15265.3	13643.5	13535.8	13937.6	14027.8
47.5°	25650.8	25653.7	24969.5	23598.1	23583.6	21455.3	17760.5	15821.4	15635.1	15824.3	15728.2
50°	25184.9	25246.1	25173.3	24736.6	26140.0	25432.4	21018.5	18858.1	18482.6	18668.9	18299.2
52.5°	22931.4	23010.1	23440.9	24110.5	27214.3	30239.4	25805.1	22631.6	22194.8	22127.9	21717.2
55°	18936.8	19032.8	19912.1	21731.9	26320.4	33468.3	33357.7	27441.4	26745.6	26113.7	25939.1
57.5°	13052.5	13212.6	14627.7	17329.6	23429.3	34443.7	42351.5	34298.1	32883.1	30676.1	30716.9
60°	7357.5	7543.9	9212.2	11666.5	17594.5	33383.9	49193.6	44683.6	41696.4	36018.8	36321.6
62.5°	4678.9	4879.8	6146.3	8105.8	10557.3	27677.3	51997.4	59122.1	55328.2	42604.8	42901.7
65°	3787.9	3875.2	4472.1	6690.7	7666.1	16674.5	49869.1	71015.7	69600.8	50963.8	49577.9
67.5°	3697.7	3726.8	4035.4	5616.4	7351.6	9372.3	39777.6	73240.1	74809.5	58769.8	52358.5
70°	3654.0	3755.9	4547.8	5360.2	7040.2	7904.9	23903.9	67143.3	69621.1	60810.7	48657.9
72.5°	1773.2	1767.4	2288.4	4847.8	7931.0	8199.0	12280.9	54326.7	56813.2	52684.6	39984.4
75°	1429.6	1307.3	1249.0	1776.0	7625.4	8466.8	7826.3	37381.5	39180.8	35323.0	24579.4
77.5°	1356.7	1211.2	1109.3	1112.3	3223.1	8979.3	6629.6	20689.5	21213.5	15955.3	6734.4
80°	1123.8	989.9	917.2	1033.6	1560.6	8551.3	7168.2	9363.6	8592.0	3918.9	2241.9
82.5°	780.3	710.4	690.1	867.7	1249.0	6093.9	8335.8	5031.2	4218.9	1962.4	1383.0
85°	497.9	425.0	471.7	631.8	972.4	2812.6	8586.1	3921.9	3118.3	1246.2	780.3
87.5°	230.1	186.4	232.9	349.3	634.7	969.6	8169.8	4405.1	3211.5	658.0	492.0
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°	12735.1	12735.1	12735.1	12735.1	12735.1	12735.1	12735.1	12735.1	12735.1	12735.1	12735.1
2.5°	12741.0	12685.6	12641.9	12560.4	12470.2	12382.8	12304.3	12205.2	12176.1	12149.9	12190.7
5°	12781.8	12726.4	12566.2	12315.9	12039.3	11780.2	11521.0	11299.7	11163.0	11087.2	11130.8
7.5°	12842.8	12764.3	12432.3	11972.3	11474.4	11020.2	10551.4	10175.9	9899.3	9768.3	9806.1
10°	12898.2	12746.8	12205.2	11515.2	10787.3	10111.9	9372.3	8760.9	8306.7	8067.9	8126.1
12.5°	12921.5	12679.8	11887.9	10944.6	9945.8	8955.9	7867.0	6952.8	6300.6	6061.9	6012.4
15°	12944.7	12604.1	11538.5	10295.3	8929.7	7529.3	6003.6	4908.8	4367.3	4248.0	4221.7
17.5°	12950.6	12473.1	11142.5	9590.7	7738.9	5831.8	4105.3	3409.4	3412.4	3604.5	3627.8
20°	12889.5	12278.1	10662.1	8714.3	6312.2	4032.5	2818.4	2699.1	3138.6	3619.1	3677.3
22.5°	12749.6	12018.9	10117.7	7692.3	4678.9	2655.4	2180.7	2311.8	2879.5	3467.7	3534.6
25°	12572.1	11704.4	9474.2	6507.3	3097.9	1898.3	1828.4	1988.6	2372.9	2766.0	2803.8
27.5°	12330.4	11331.7	8752.2	5150.6	2011.8	1563.5	1610.1	1717.8	1875.1	2049.7	2067.2
30°	12018.9	10886.3	7980.6	3755.9	1519.8	1406.3	1473.3	1531.5	1598.5	1697.5	1706.2
32.5°	11660.8	10458.3	7188.6	2594.2	1348.0	1324.7	1377.2	1406.3	1458.7	1519.8	1525.6
35°	11360.9	10050.7	6367.6	1834.3	1275.2	1263.7	1298.5	1310.2	1359.7	1426.7	1432.4
37.5°	11189.1	9718.7	5520.4	1479.1	1225.8	1208.3	1228.7	1228.7	1298.5	1397.6	1412.1
40°	11200.8	9535.3	4673.0	1336.4	1185.0	1161.7	1164.6	1164.6	1254.9	1362.6	1371.4
42.5°	11518.1	9581.9	3921.9	1281.0	1153.0	1126.8	1112.3	1120.9	1196.6	1266.5	1272.3
45°	12263.4	9911.0	3217.3	1246.2	1120.9	1112.3	1080.2	1077.3	1106.4	1138.4	1138.4
47.5°	13486.3	10560.2	2739.8	1222.8	1094.8	1091.8	1053.9	1016.1	1013.2	1024.9	1024.9
50°	15474.9	11678.2	2419.5	1196.6	1077.3	1053.9	1010.3	952.1	931.7	940.4	940.4
52.5°	18456.4	13672.7	2297.2	1161.7	1039.4	1001.6	952.1	893.9	876.4	879.3	879.3
55°	22366.5	16735.6	2279.7	1120.9	998.7	937.5	896.7	853.0	832.7	838.5	838.5
57.5°	27144.4	20971.9	2591.2	1056.9	943.4	873.5	850.2	821.0	806.5	815.2	812.3
60°	32952.9	26515.5	3843.2	989.9	888.0	815.2	815.2	792.0	780.3	789.0	786.1
62.5°	39643.7	32883.1	5403.8	940.4	829.8	768.6	780.3	768.6	757.0	762.8	760.0
65°	45577.5	37032.0	5060.2	902.5	771.6	725.0	745.3	739.5	730.8	736.6	733.8
67.5°	45749.2	35494.8	2841.7	861.8	716.3	681.3	710.4	707.5	701.6	707.5	704.6
70°	40828.7	29971.5	1601.3	786.1	658.0	628.9	669.6	666.8	660.9	672.6	669.6
72.5°	32711.3	21749.3	1170.5	692.9	599.8	573.6	620.1	617.2	617.2	634.7	625.9
75°	18823.2	11192.0	934.6	593.9	538.7	518.2	559.0	561.9	567.7	591.1	573.6
77.5°	5366.0	3488.1	762.8	503.7	463.0	454.2	495.0	500.8	503.7	529.9	506.6
80°	1994.4	1607.2	628.9	422.2	378.5	381.5	419.3	428.0	430.9	457.2	428.0
82.5°	1272.3	1059.8	509.5	326.1	297.0	294.1	340.6	352.3	352.3	355.2	337.8
85°	742.5	634.7	384.3	235.8	209.6	200.9	253.3	273.6	264.9	259.1	247.5
87.5°	497.9	436.7	235.8	131.0	113.5	107.7	148.5	163.1	157.2	148.5	139.7
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)