

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: P193648

Luminaire Tested: **GLEON-AF-10-LED-E1-SL2-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193648
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-SL2-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 1200mA 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: 51665 lumens
Efficiency: N/A
Efficacy: 80.7 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): 640
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

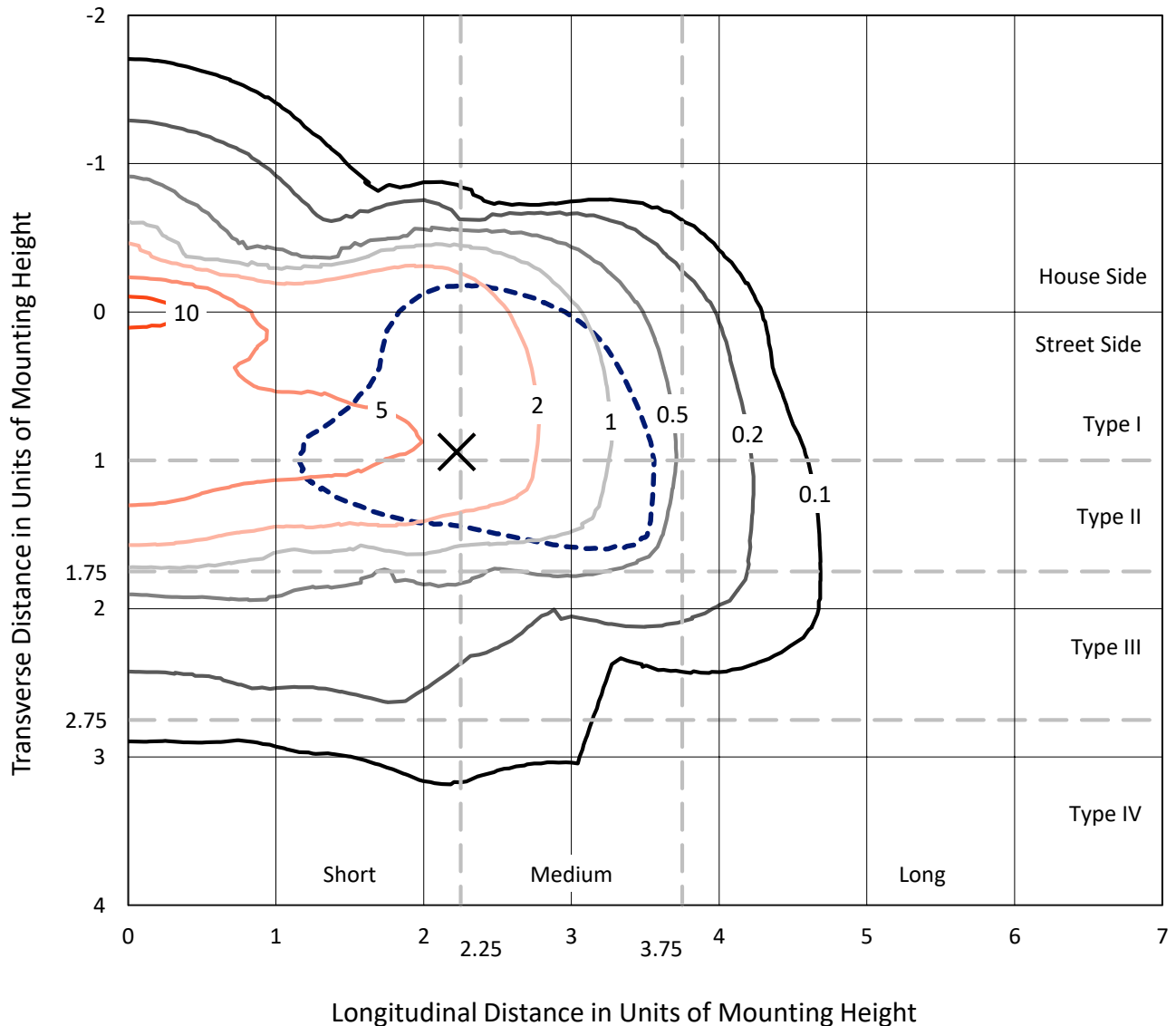


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

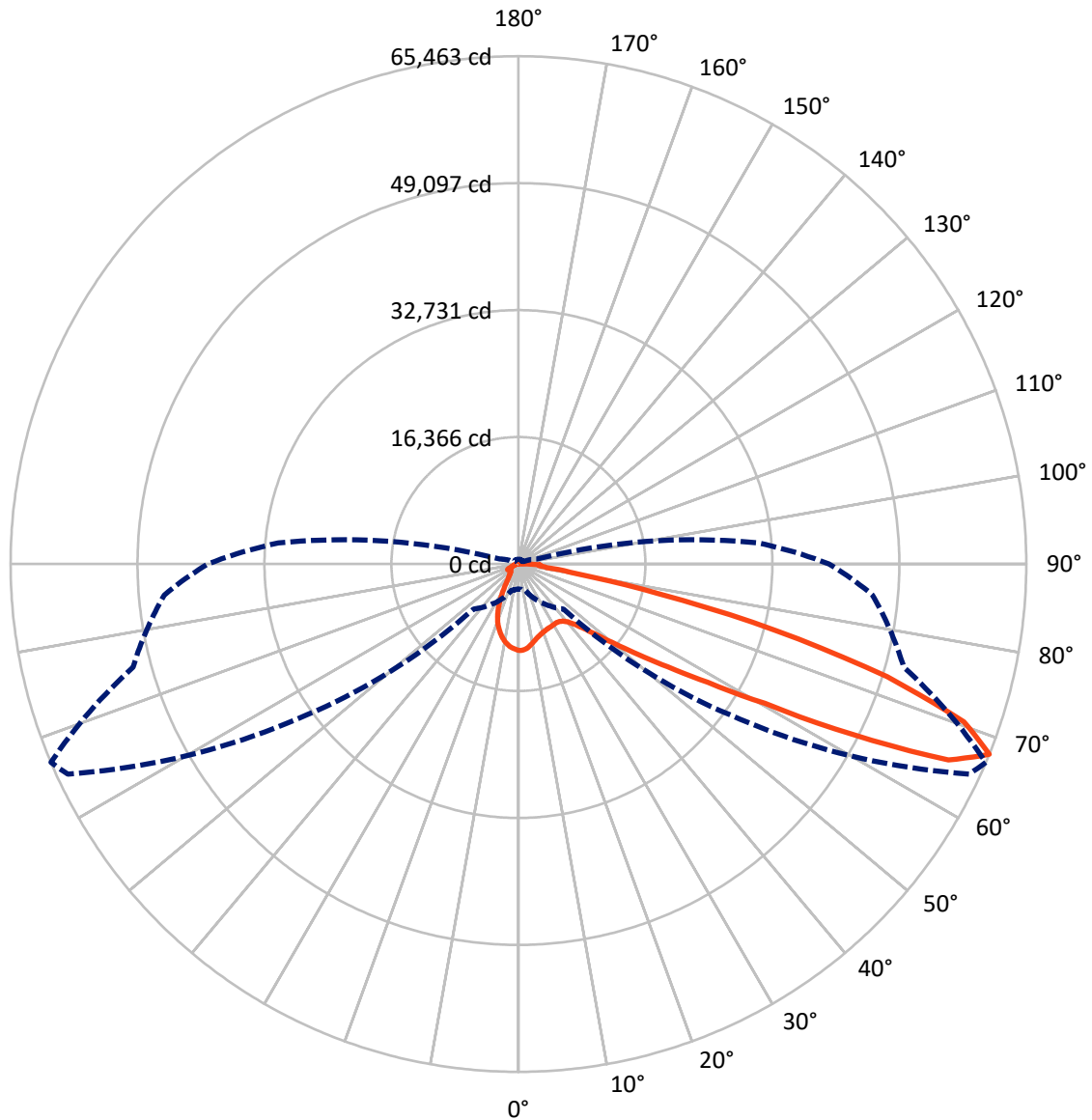


Based on 30 foot mounting height. Maximum calculated value = 12.4 fc
 Type II - Short - Semi-Cutoff

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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	8560.3	0.0	8560.3
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	43104.7	0.0	43104.7
	% Fixture	83.4	0.0	83.4
Total	Lumens	51665.0	0.0	51665.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	950.8	1.8
10°-20°	2199.9	4.3
20°-30°	2982.0	5.8
30°-40°	4239.2	8.2
40°-50°	7092.4	13.7
50°-60°	11220.1	21.7
60°-70°	14293.2	27.7
70°-80°	7486.8	14.5
80°-90°	1200.7	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°	51665.0	100.0
0°-180°	51665.0	100.0



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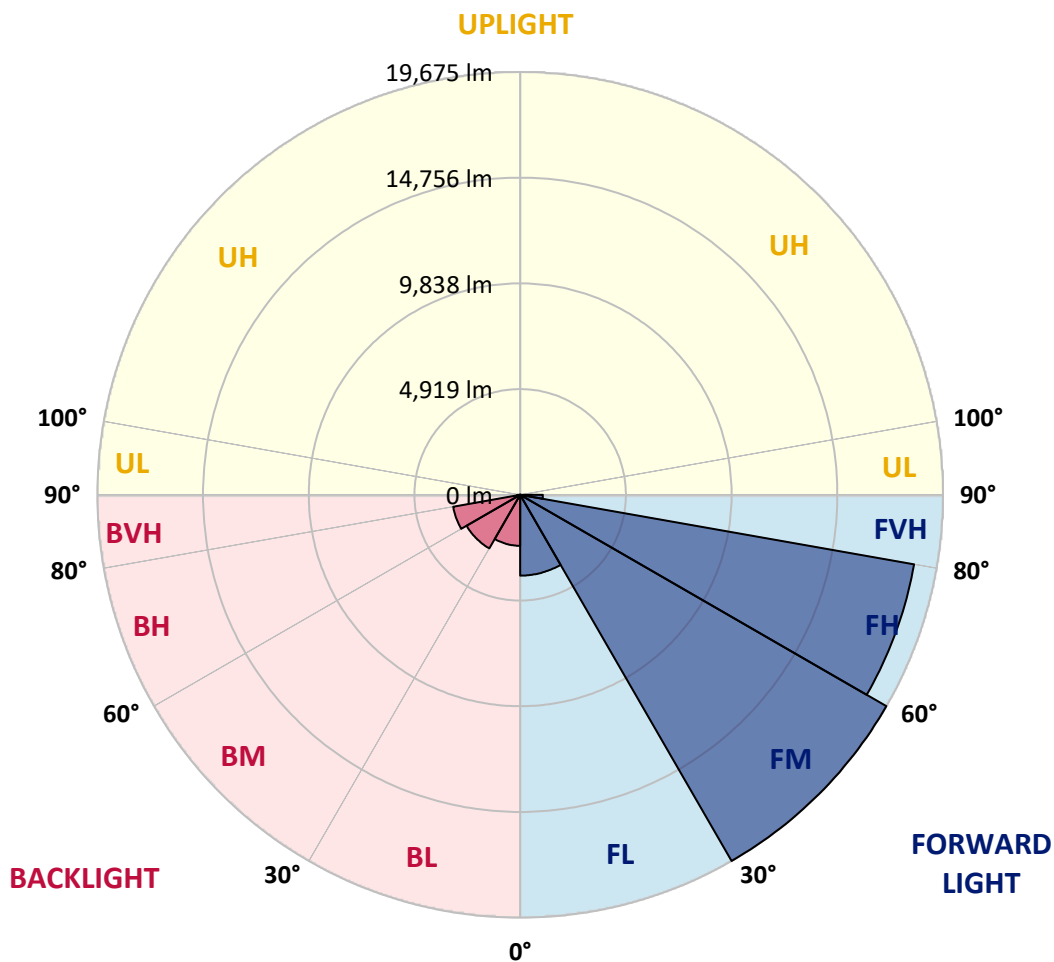
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3760.0	7.3			
FM (30°-60°)	19675.1	38.1			
FH (60°-80°)	18613.8	36.0			G5
FVH (80°-90°)	1055.8	2.0			G5
BL (0°-30°)	2372.7	4.6	B3/2500		
BM (30°-60°)	2876.5	5.6	B3/5000		
BH (60°-80°)	3166.2	6.1	B4/5000		G4/5000
BVH (80°-90°)	144.9	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°	11144.0	11144.0	11144.0	11144.0	11144.0	11144.0	11144.0	11144.0	11144.0	11144.0	11144.0
2.5°	10685.4	10703.2	10759.3	10795.0	10955.5	11024.3	11072.7	11121.1	11128.7	11151.7	11128.7
5°	9564.4	9602.6	9707.1	9824.3	10135.1	10379.7	10637.0	10904.5	10952.9	11126.2	11174.6
7.5°	8695.6	8685.4	8772.0	8912.2	9230.6	9569.5	10020.4	10552.9	10657.4	11047.2	11235.7
10°	8061.2	8053.6	8145.3	8290.5	8593.7	8914.7	9424.3	10152.9	10300.7	10922.4	11294.3
12.5°	7592.4	7594.9	7686.7	7847.2	8155.5	8479.0	8996.2	9765.7	9954.2	10777.1	11355.5
15°	7281.6	7302.0	7375.8	7546.5	7847.2	8170.7	8677.8	9475.2	9686.7	10662.5	11424.3
17.5°	7177.1	7210.2	7235.7	7360.6	7617.9	7941.4	8438.3	9261.2	9485.4	10583.5	11485.4
20°	7273.9	7312.1	7263.7	7307.0	7470.1	7755.5	8249.7	9093.0	9322.3	10494.3	11493.1
22.5°	7689.2	7724.9	7582.2	7457.4	7447.2	7620.4	8094.3	8960.6	9197.5	10428.1	11495.6
25°	8420.4	8443.4	8203.9	7913.4	7630.6	7572.0	7984.8	8868.8	9121.1	10369.5	11447.2
27.5°	9317.3	9335.1	9059.9	8631.9	8063.7	7686.7	7946.5	8815.3	9077.8	10318.5	11365.7
30°	10407.7	10491.8	10122.4	9582.2	8754.2	8025.5	8023.0	8787.3	9029.4	10231.9	11205.2
32.5°	11523.6	11559.3	11304.5	10756.8	9684.1	8621.7	8237.0	8807.7	9016.6	10127.4	11001.3
35°	12654.9	12700.7	12535.1	12094.3	10955.5	9495.6	8654.8	8927.4	9095.6	10091.8	10858.7
37.5°	14119.8	14181.0	13951.7	13442.1	12502.0	10680.3	9350.4	9228.1	9337.6	10193.7	10815.3
40°	16435.8	16407.7	15737.7	14978.4	14193.7	12196.2	10344.0	9737.6	9801.3	10522.4	10947.8
42.5°	19131.3	19062.5	17908.4	16716.0	16053.6	14030.7	11658.7	10621.7	10609.0	11169.5	11414.1
45°	21281.7	21225.6	20186.1	18716.0	18186.1	16119.8	13358.0	11938.9	11844.7	12196.2	12275.2
47.5°	22446.0	22448.5	21849.8	20649.8	20637.1	18774.6	15541.5	13844.7	13681.6	13847.2	13763.1
50°	22038.3	22091.8	22028.2	21646.0	22874.0	22254.9	18392.5	16502.0	16173.3	16336.4	16012.8
52.5°	20066.4	20135.1	20512.2	21098.2	23814.2	26461.3	22581.0	19803.9	19421.8	19363.2	19003.9
55°	16570.8	16654.9	17424.3	19016.7	23032.0	29286.8	29190.0	24012.9	23404.0	22851.1	22698.2
57.5°	11421.7	11561.9	12800.1	15164.4	20502.0	30140.3	37060.1	30012.9	28774.7	26843.5	26879.1
60°	6438.3	6601.3	8061.2	10209.0	15396.3	29212.9	43047.4	39100.9	36486.8	31518.7	31783.6
62.5°	4094.3	4270.1	5378.4	7093.0	9238.3	24219.2	45500.9	51735.3	48415.6	37281.7	37541.6
65°	3314.7	3391.1	3913.4	5854.8	6708.3	14591.2	43638.5	62143.0	60904.8	44596.4	43383.7
67.5°	3235.7	3261.2	3531.2	4914.7	6433.2	8201.3	34807.8	64089.5	65462.8	51427.1	45816.8
70°	3197.5	3286.6	3979.6	4690.5	6160.5	6917.2	20917.3	58754.5	60922.6	53213.0	42578.6
72.5°	1551.6	1546.5	2002.6	4242.1	6940.2	7174.6	10746.6	47539.1	49714.9	46102.2	34988.7
75°	1251.0	1144.0	1093.0	1554.1	6672.7	7409.0	6848.4	32711.0	34285.5	30909.7	21508.4
77.5°	1187.3	1059.9	970.7	973.3	2820.4	7857.4	5801.3	18104.6	18563.2	13961.9	5893.0
80°	983.4	866.2	802.6	904.5	1365.6	7482.8	6272.6	8193.7	7518.5	3429.3	1961.8
82.5°	682.8	621.7	603.8	759.2	1093.0	5332.5	7294.3	4402.6	3691.7	1717.2	1210.2
85°	435.7	372.0	412.7	552.9	851.0	2461.2	7513.4	3431.9	2728.7	1090.5	682.8
87.5°	201.3	163.1	203.8	305.7	555.4	848.4	7149.1	3854.8	2810.2	575.8	430.6
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°	11144.0	11144.0	11144.0	11144.0	11144.0	11144.0	11144.0	11144.0	11144.0	11144.0	11144.0
2.5°	11149.1	11100.7	11062.5	10991.1	10912.2	10835.7	10766.9	10680.3	10654.8	10631.9	10667.6
5°	11184.8	11136.4	10996.2	10777.1	10535.1	10308.3	10081.6	9888.0	9768.2	9702.0	9740.2
7.5°	11238.3	11169.5	10879.0	10476.5	10040.8	9643.4	9233.2	8904.5	8662.5	8547.8	8580.9
10°	11286.7	11154.2	10680.3	10076.5	9439.5	8848.5	8201.3	7666.3	7268.8	7059.9	7110.9
12.5°	11307.1	11095.6	10402.6	9577.1	8703.2	7837.0	6884.1	6084.1	5513.4	5304.5	5261.2
15°	11327.5	11029.4	10096.9	9009.0	7814.1	6588.6	5253.5	4295.6	3821.7	3717.2	3694.3
17.5°	11332.6	10914.7	9750.4	8392.4	6772.0	5103.2	3592.4	2983.5	2986.0	3154.2	3174.5
20°	11279.0	10744.0	9330.0	7625.5	5523.6	3528.7	2466.3	2361.8	2746.5	3166.9	3217.9
22.5°	11156.8	10517.3	8853.6	6731.2	4094.3	2323.6	1908.3	2022.9	2519.8	3034.4	3093.0
25°	11001.3	10242.1	8290.5	5694.3	2710.8	1661.2	1600.0	1740.1	2076.4	2420.4	2453.5
27.5°	10789.9	9916.0	7658.6	4507.0	1760.5	1368.2	1408.9	1503.2	1640.8	1793.6	1808.9
30°	10517.3	9526.2	6983.5	3286.6	1329.9	1230.6	1289.2	1340.1	1398.7	1485.4	1493.0
32.5°	10203.9	9151.6	6290.5	2270.1	1179.6	1159.2	1205.1	1230.6	1276.4	1329.9	1335.0
35°	9941.5	8795.0	5572.0	1605.1	1115.9	1105.7	1136.3	1146.5	1189.8	1248.4	1253.5
37.5°	9791.1	8504.5	4830.6	1294.3	1072.6	1057.3	1075.2	1075.2	1136.3	1222.9	1235.7
40°	9801.3	8344.0	4089.2	1169.4	1036.9	1016.6	1019.1	1019.1	1098.1	1192.4	1200.0
42.5°	10079.0	8384.8	3431.9	1121.0	1008.9	986.0	973.3	980.9	1047.1	1108.3	1113.4
45°	10731.3	8672.7	2815.3	1090.5	980.9	973.3	945.2	942.7	968.2	996.2	996.2
47.5°	11801.3	9240.8	2397.5	1070.1	958.0	955.4	922.3	889.2	886.6	896.8	896.8
50°	13541.5	10219.2	2117.2	1047.1	942.7	922.3	884.1	833.1	815.3	822.9	822.9
52.5°	16150.4	11964.4	2010.2	1016.6	909.6	876.4	833.1	782.2	766.9	769.4	769.4
55°	19572.1	14644.7	1994.9	980.9	873.9	820.4	784.7	746.5	728.7	733.8	733.8
57.5°	23753.0	18351.7	2267.5	924.8	825.5	764.3	744.0	718.5	705.7	713.4	710.8
60°	28835.8	23202.7	3363.1	866.2	777.1	713.4	713.4	693.0	682.8	690.4	687.9
62.5°	34690.6	28774.7	4728.7	822.9	726.1	672.6	682.8	672.6	662.4	667.5	665.0
65°	39883.0	32405.3	4428.1	789.8	675.2	634.4	652.2	647.1	639.5	644.6	642.0
67.5°	40033.4	31060.1	2486.6	754.1	626.8	596.2	621.7	619.1	614.0	619.1	616.6
70°	35727.6	26226.9	1401.3	687.9	575.8	550.3	586.0	583.4	578.3	588.5	586.0
72.5°	28624.4	19032.0	1024.2	606.4	524.8	501.9	542.7	540.1	540.1	555.4	547.8
75°	16471.4	9793.7	817.8	519.7	471.3	453.5	489.2	491.7	496.8	517.2	501.9
77.5°	4695.6	3052.2	667.5	440.8	405.1	397.5	433.1	438.2	440.8	463.7	443.3
80°	1745.2	1406.4	550.3	369.4	331.2	333.8	366.9	374.5	377.1	400.0	374.5
82.5°	1113.4	927.4	445.9	285.4	259.9	257.3	298.1	308.3	308.3	310.8	295.5
85°	649.7	555.4	336.3	206.4	183.4	175.8	221.7	239.5	231.8	226.8	216.6
87.5°	435.7	382.2	206.4	114.7	99.4	94.3	129.9	142.7	137.6	129.9	122.3
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)