

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: P193725

Luminaire Tested: **GLEON-AF-07-LED-E1-SL3-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193725
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: GLEON-AF-07-LED-E1-SL3-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37690 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 448
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

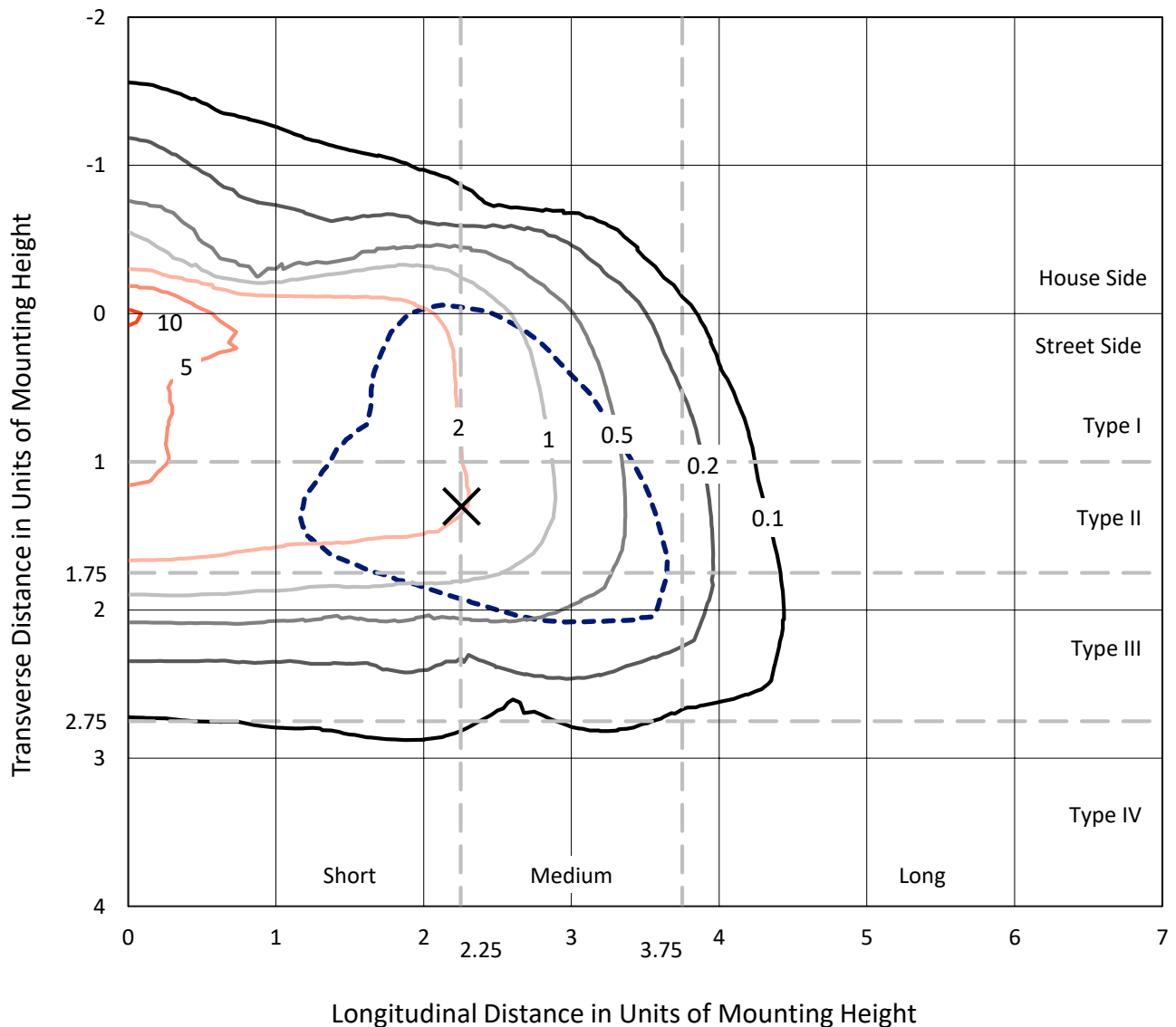


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

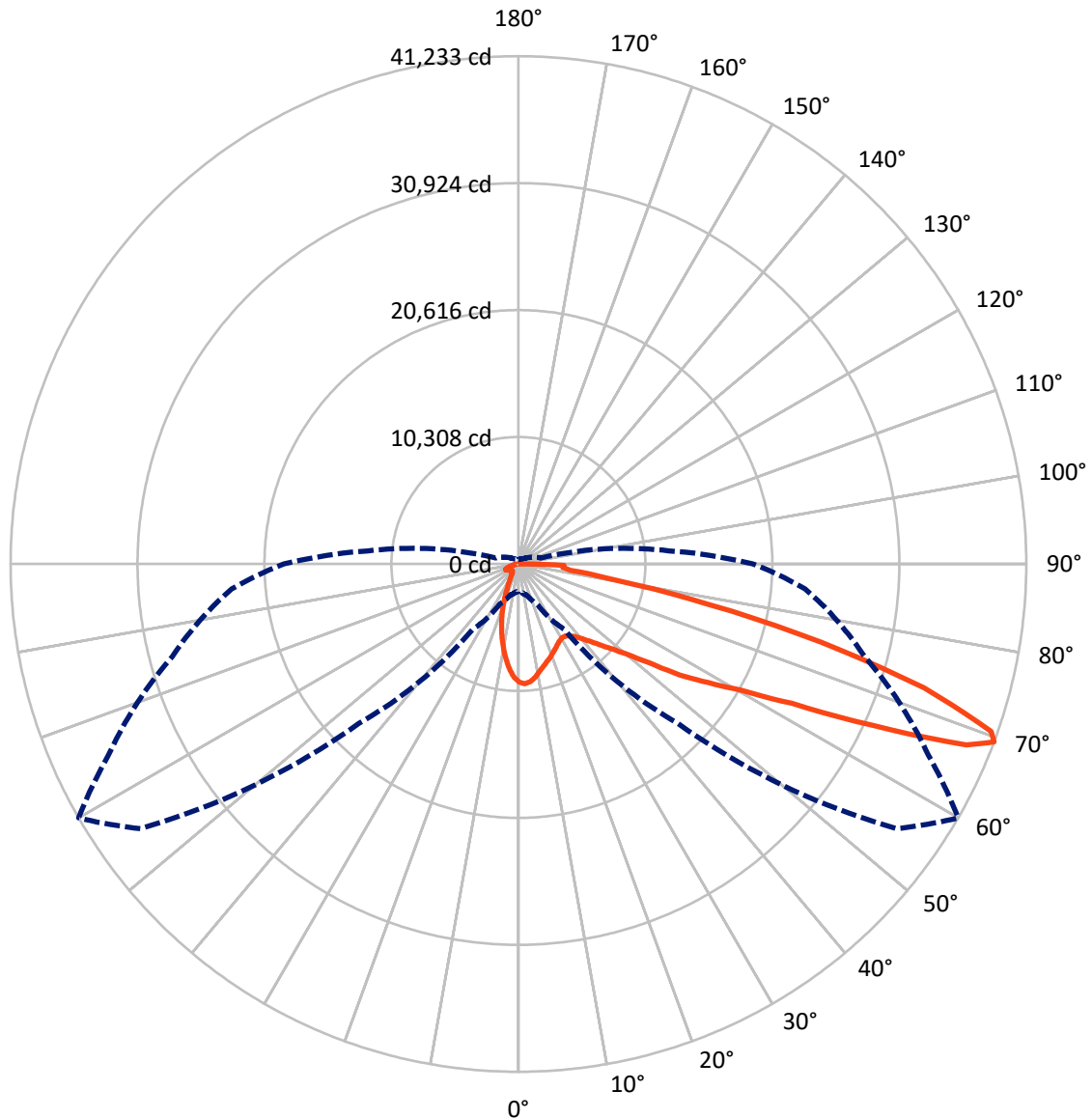


Based on 30 foot mounting height. Maximum calculated value = 10.7 fc
 Type III - Medium - Non-Cutoff

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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	5362.1	0.0	5362.1
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	32327.9	0.0	32327.9
	% Fixture	85.8	0.0	85.8
Total	Lumens	37690.0	0.0	37690.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	812.0	2.2
10°-20°	1730.1	4.6
20°-30°	2204.5	5.8
30°-40°	3030.6	8.0
40°-50°	4917.5	13.0
50°-60°	7886.4	20.9
60°-70°	10496.2	27.8
70°-80°	5667.1	15.0
80°-90°	945.6	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°	37690.0	100.0
0°-180°	37690.0	100.0

Coefficient of Utilization



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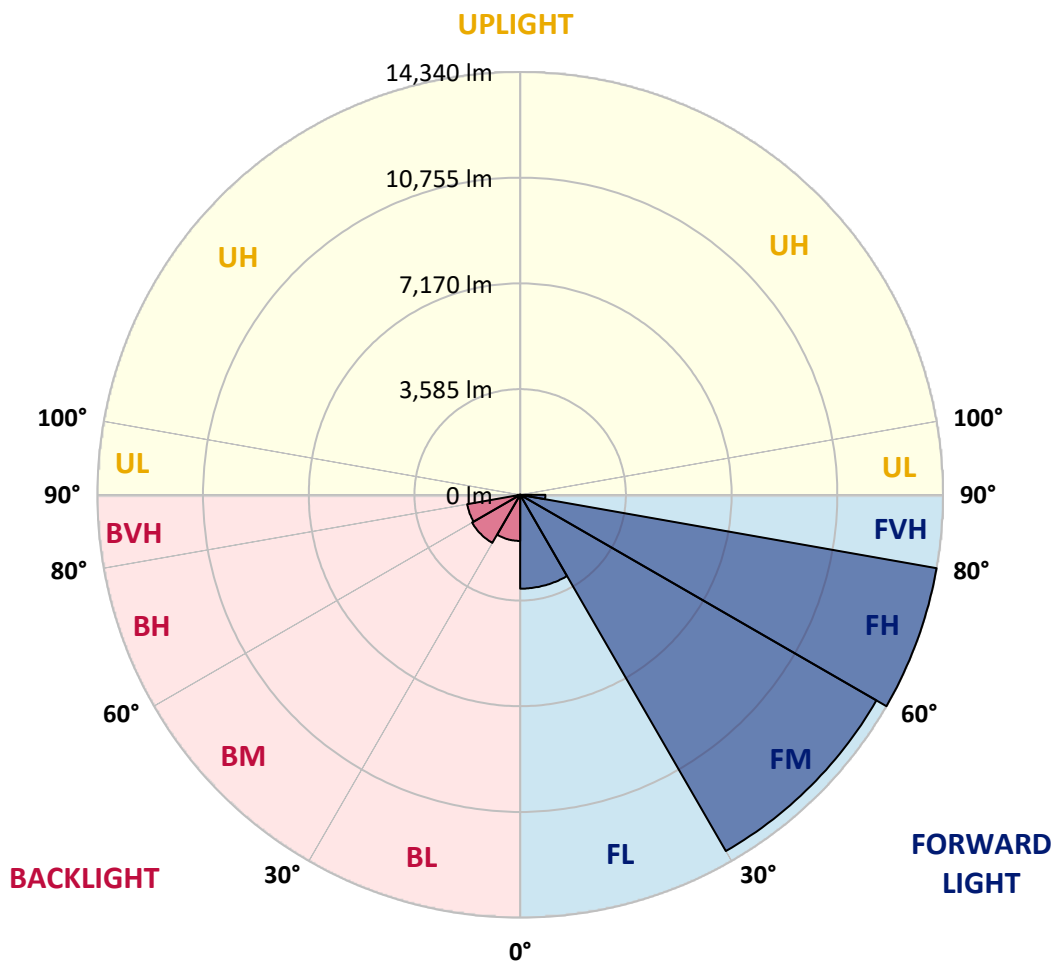
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3182.4	8.4			
FM	(30°-60°)	13950.6	37.0			
FH	(60°-80°)	14340.3	38.0			G5
FVH	(80°-90°)	854.5	2.3			G5
BL	(0°-30°)	1564.3	4.2	B3/2500		
BM	(30°-60°)	1883.8	5.0	B2/2500		
BH	(60°-80°)	1822.9	4.8	B3/2500		G3/2500
BVH	(80°-90°)	91.1	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-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	9604.0	9604.0	9604.0	9604.0	9604.0	9604.0	9604.0	9604.0	9604.0	9604.0	9604.0
2.5°	9800.6	9822.5	9813.4	9807.9	9824.3	9798.8	9746.0	9729.6	9704.1	9644.0	9542.1
5°	9432.8	9498.4	9494.7	9543.9	9625.8	9647.7	9624.0	9627.7	9580.3	9505.7	9336.3
7.5°	8797.4	8824.7	8839.3	8946.7	9096.0	9216.2	9318.1	9350.9	9329.1	9265.3	9046.9
10°	8142.0	8163.8	8198.4	8324.1	8513.4	8679.1	8872.1	8983.1	9030.5	9019.6	8775.6
12.5°	7579.4	7601.3	7646.8	7788.8	8014.5	8218.5	8498.8	8637.2	8750.1	8817.5	8555.3
15°	7075.1	7122.4	7166.1	7330.0	7583.1	7850.7	8167.5	8342.3	8517.1	8668.2	8360.5
17.5°	6681.8	6729.2	6754.7	6903.9	7173.4	7501.1	7872.5	8078.3	8296.8	8544.4	8167.5
20°	6454.2	6476.1	6465.2	6548.9	6791.1	7138.8	7579.4	7817.9	8081.9	8427.8	7974.5
22.5°	6390.5	6392.3	6352.3	6343.2	6499.8	6792.9	7266.3	7555.7	7879.8	8351.4	7808.8
25°	6545.3	6539.8	6430.6	6341.4	6357.7	6528.9	6964.0	7300.8	7710.5	8335.0	7681.4
27.5°	6889.4	6905.8	6743.7	6576.2	6410.5	6405.1	6734.6	7089.7	7572.1	8409.6	7626.7
30°	7371.9	7399.2	7226.2	7013.2	6701.9	6445.1	6645.4	6964.0	7486.6	8564.4	7617.6
32.5°	7899.8	7929.0	7797.9	7573.9	7166.1	6692.7	6707.3	6975.0	7482.9	8781.0	7679.5
35°	8462.4	8495.2	8427.8	8238.5	7785.1	7149.7	6944.0	7151.6	7601.3	9112.4	7845.2
37.5°	9090.6	9141.5	9159.7	8979.5	8495.2	7752.4	7331.8	7486.6	7868.9	9573.0	8149.3
40°	9995.4	10066.4	10061.0	9802.4	9309.0	8566.2	7930.8	7970.9	8285.8	10188.4	8635.4
42.5°	11728.7	11743.3	11289.9	10727.3	10204.8	9421.9	8637.2	8604.4	8861.2	10967.7	9350.9
45°	13933.5	13873.4	12864.8	11777.9	11140.6	10405.1	9556.6	9396.4	9591.2	11918.0	10246.7
47.5°	15763.3	15624.9	14350.4	12850.2	12131.1	11473.8	10636.3	10355.9	10463.3	12995.9	11404.6
50°	16398.7	16294.9	15238.9	13742.3	13068.7	12777.4	11965.4	11568.5	11597.6	14281.3	12761.0
52.5°	16262.1	16247.6	15543.0	14330.4	13946.3	14146.5	13847.9	13310.8	13026.8	15708.7	14224.8
55°	15939.9	15970.8	15715.9	15015.0	14949.4	15468.3	16307.7	15910.8	15027.7	17148.8	15737.8
57.5°	14820.2	14900.3	15461.0	15876.2	16564.4	17336.3	18288.5	18175.7	17181.6	18705.5	17536.6
60°	11939.9	12125.6	13629.5	15708.7	18226.6	20640.8	21066.9	20804.7	19402.8	20637.2	19912.6
62.5°	8365.9	8558.9	10346.8	13600.3	17953.5	24373.2	26033.6	24903.0	22592.6	23482.9	22987.7
65°	4478.8	4571.7	5937.2	9436.5	15157.0	25143.3	33292.6	31572.1	27643.1	26991.3	25618.5
67.5°	2470.6	2521.6	3044.1	4764.7	9707.8	22141.1	37917.1	39217.0	33955.3	29327.2	25139.7
69°	2234.0	2281.3	2623.6	3608.5	6496.1	18306.7	37465.6	41232.5	36722.7	29096.0	23370.0
70°	2184.8	2228.5	2536.2	3326.3	5258.1	15089.6	35952.6	40717.3	37381.8	28267.6	21826.1
72.5°	1966.3	2013.7	2312.2	2987.7	4493.4	7523.0	28478.8	34426.9	33938.9	24509.7	16555.3
75°	1833.4	1877.1	2383.2	2925.8	4302.2	4761.0	18774.7	25372.7	24948.5	17145.2	8926.7
77.5°	784.7	781.1	1105.1	2476.1	4365.9	4609.9	10088.3	15850.7	14461.5	7328.2	2563.5
80°	524.4	515.2	524.4	728.3	4003.6	4635.4	5285.4	8045.5	6077.4	1868.0	1263.5
82.5°	451.5	444.2	460.6	444.2	1407.4	5290.8	4493.4	4278.6	2889.4	1061.4	626.3
85°	304.1	291.3	396.9	398.7	664.5	4700.9	5061.4	3614.0	2337.7	629.9	309.5
87.5°	145.7	142.0	231.2	282.2	389.6	1909.9	5678.6	3703.2	2357.8	322.3	147.5
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°	9604.0	9604.0	9604.0	9604.0	9604.0	9604.0	9604.0	9604.0	9604.0	9604.0	9604.0
2.5°	9511.1	9436.5	9363.7	9276.3	9185.2	9083.3	9032.3	8981.3	8968.6	8954.0	8903.0
5°	9249.0	9143.4	8961.3	8761.0	8549.8	8344.1	8187.5	8089.2	8014.5	7976.3	7908.9
7.5°	8910.3	8755.6	8436.9	8091.0	7736.0	7411.9	7131.5	6954.9	6787.4	6709.1	6619.9
10°	8588.1	8356.8	7861.6	7351.8	6842.0	6352.3	5891.7	5565.8	5276.3	5114.2	4999.5
12.5°	8311.3	7994.5	7308.1	6618.1	5919.0	5221.7	4531.6	3989.1	3535.7	3297.2	3175.2
15°	8041.9	7659.5	6782.0	5906.2	5008.6	4060.1	3153.4	2538.0	2162.9	2013.7	1962.7
17.5°	7797.9	7308.1	6254.0	5188.9	4069.2	2922.2	2119.2	1780.6	1636.8	1587.6	1571.2
20°	7533.9	6953.1	5706.0	4438.8	3089.7	2042.8	1655.0	1505.7	1447.4	1432.9	1425.6
22.5°	7279.0	6603.5	5181.6	3635.9	2219.4	1576.7	1421.9	1360.0	1350.9	1363.7	1363.7
25°	7062.3	6290.4	4615.4	2796.5	1629.5	1327.3	1272.6	1258.1	1292.7	1340.0	1349.1
27.5°	6900.3	6033.7	4012.7	2064.6	1298.1	1154.3	1152.5	1176.1	1261.7	1352.8	1371.0
30°	6789.2	5789.7	3368.2	1489.3	1088.8	1015.9	1045.1	1096.0	1221.7	1350.9	1385.5
32.5°	6732.8	5609.5	2696.4	1152.5	932.2	892.1	941.3	1003.2	1127.0	1247.2	1292.7
35°	6776.5	5476.5	2062.8	961.3	822.9	792.0	843.0	903.0	975.9	1026.9	1061.4
37.5°	6940.4	5423.7	1556.7	861.2	748.3	719.2	759.2	793.8	822.9	837.5	853.9
40°	7293.6	5480.2	1247.2	810.2	706.4	670.0	686.4	699.1	717.3	731.9	739.2
42.5°	7814.3	5649.5	1117.9	790.2	684.6	631.8	628.1	633.6	657.3	684.6	690.0
45°	8542.5	5948.1	1108.8	802.9	673.6	600.8	584.4	591.7	628.1	670.0	677.3
47.5°	9472.9	6403.3	1181.6	841.1	682.7	584.4	557.1	566.2	611.7	668.2	677.3
50°	10599.9	7038.7	1303.6	897.6	722.8	588.1	548.0	553.5	600.8	662.7	671.8
52.5°	11930.8	7939.9	1436.5	952.2	764.7	611.7	555.3	542.6	586.3	640.9	651.8
55°	13411.0	9096.0	1573.1	1001.4	786.5	640.9	569.9	528.0	558.9	604.5	613.6
57.5°	15228.0	10712.8	1809.7	1048.7	801.1	660.9	584.4	513.4	524.4	557.1	564.4
60°	17687.7	12999.5	2226.7	1127.0	833.9	668.2	582.6	500.7	489.8	508.0	511.6
62.5°	20635.4	15482.9	2574.4	1225.3	888.5	673.6	571.7	491.6	460.6	460.6	464.3
65°	22385.0	16147.4	2381.4	1307.2	934.0	668.2	558.9	482.5	438.8	418.8	420.6
67.5°	20901.2	14201.2	2041.0	1323.6	932.2	642.7	538.9	466.1	416.9	386.0	384.2
69°	19042.3	12253.0	1888.0	1279.9	888.5	609.9	513.4	447.9	400.5	367.8	366.0
70°	17543.9	11064.2	1787.9	1232.6	841.1	586.3	493.4	431.5	387.8	356.8	353.2
72.5°	12755.5	7249.9	1527.5	1059.6	693.7	491.6	426.0	378.7	345.9	327.7	324.1
75°	6374.1	3457.4	1239.9	859.4	531.6	393.3	349.6	316.8	300.4	296.8	294.9
77.5°	2093.8	1584.0	886.7	640.9	395.1	307.7	282.2	258.5	254.9	265.8	262.2
80°	1150.7	921.3	562.6	424.2	269.5	225.8	222.1	209.4	214.8	233.0	229.4
82.5°	586.3	478.8	347.7	254.9	182.1	162.0	176.6	169.3	176.6	193.0	191.2
85°	289.5	262.2	220.3	154.8	120.2	103.8	125.6	131.1	134.7	147.5	147.5
87.5°	167.5	154.8	116.5	72.8	60.1	54.6	72.8	71.0	83.8	91.0	89.2
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)