

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: P191183

Luminaire Tested: **GLEON-AF-05-LED-E1-SL3-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191183
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-05-LED-E1-SL3-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 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: 33388.1 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G5

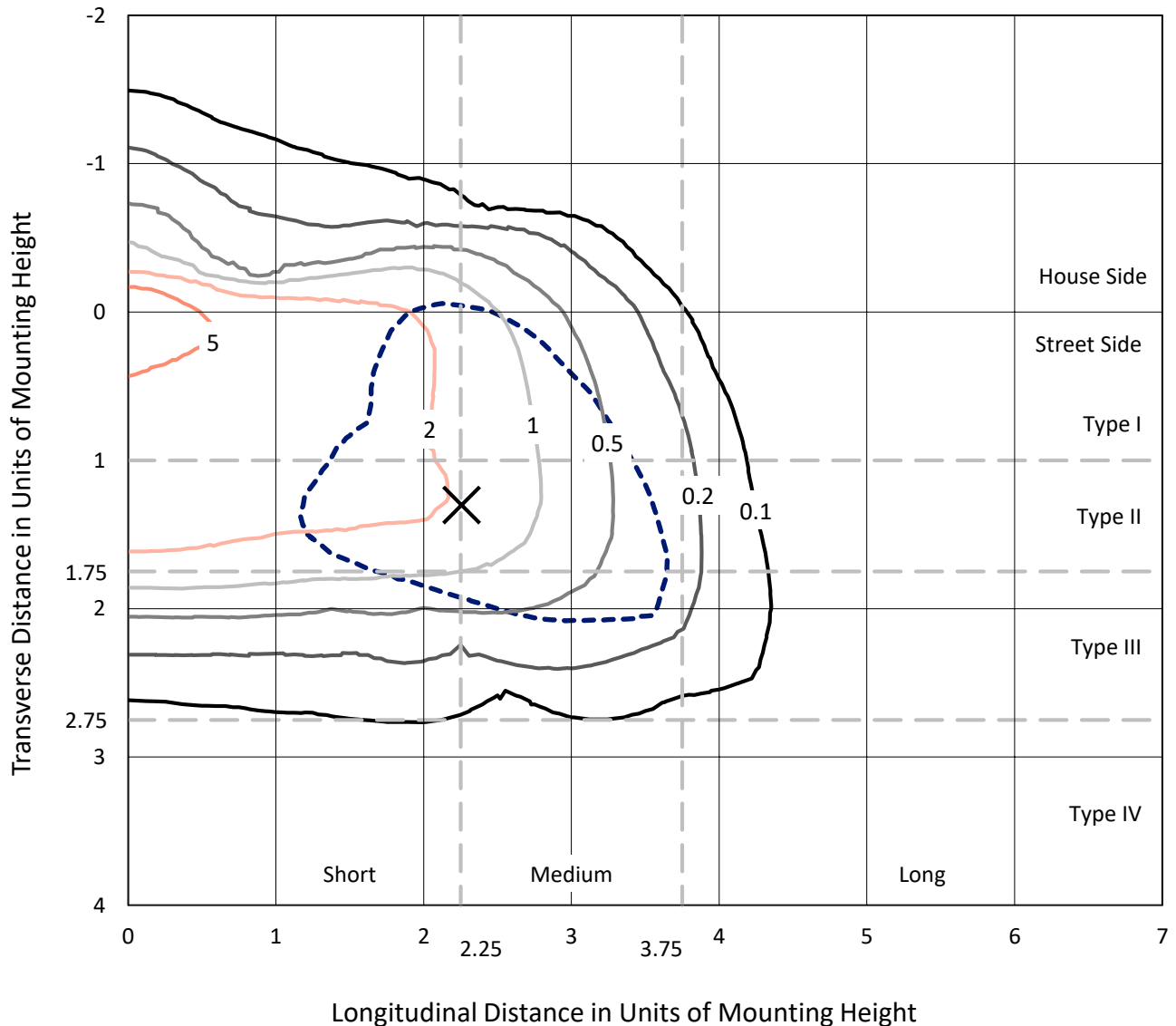
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

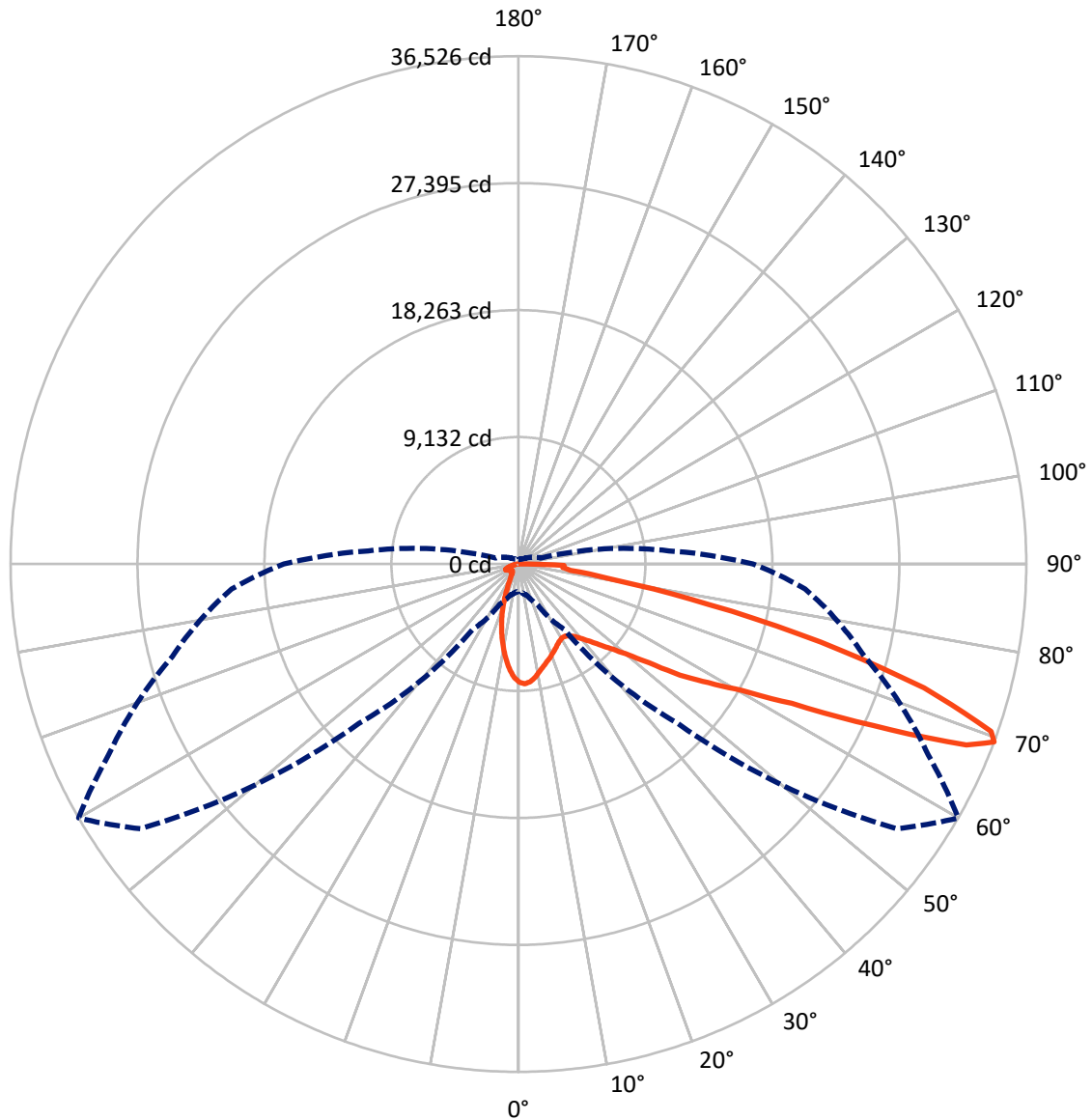
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.5 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	4750.1	0.0	4750.1
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	28638.0	0.0	28638.0
	% Fixture	85.8	0.0	85.8
Total	Lumens	33388.1	0.0	33388.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	719.4	2.2
10°-20°	1532.7	4.6
20°-30°	1952.9	5.8
30°-40°	2684.7	8.0
40°-50°	4356.2	13.0
50°-60°	6986.2	20.9
60°-70°	9298.1	27.8
70°-80°	5020.3	15.0
80°-90°	837.7	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°	33388.1	100.0
0°-180°	33388.1	100.0

Coefficient of Utilization



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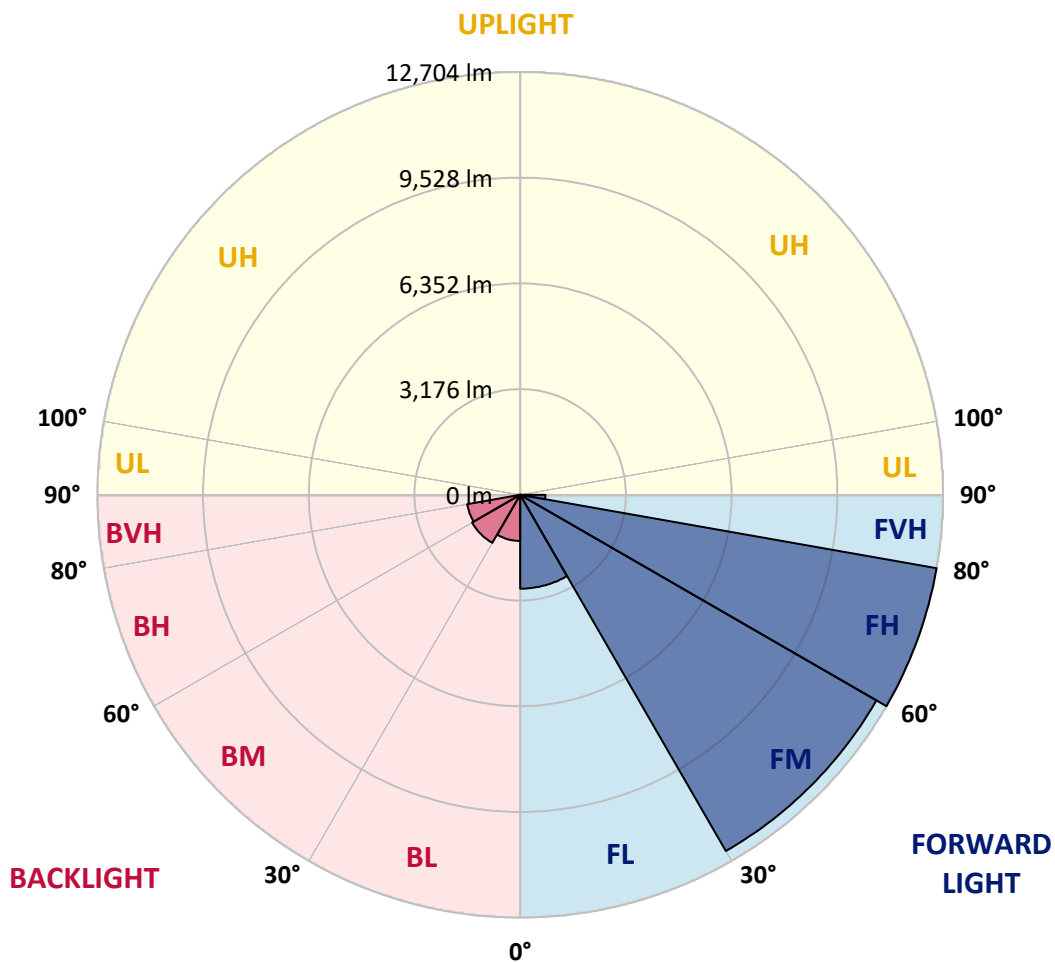
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2819.2	8.4			
FM (30°-60°)	12358.3	37.0			
FH (60°-80°)	12703.5	38.0			G5
FVH (80°-90°)	757.0	2.3			G5
BL (0°-30°)	1385.7	4.2	B3/2500		
BM (30°-60°)	1668.8	5.0	B2/2500		
BH (60°-80°)	1614.9	4.8	B3/2500		G3/2500
BVH (80°-90°)	80.7	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°	8507.8	8507.8	8507.8	8507.8	8507.8	8507.8	8507.8	8507.8	8507.8	8507.8	8507.8
2.5°	8682.0	8701.3	8693.2	8688.4	8703.0	8680.4	8633.6	8619.1	8596.5	8543.3	8452.9
5°	8356.2	8414.3	8411.0	8454.6	8527.1	8546.5	8525.6	8528.8	8486.8	8420.7	8270.7
7.5°	7793.2	7817.5	7830.4	7925.5	8057.8	8164.3	8254.6	8283.7	8264.2	8207.9	8014.3
10°	7212.7	7232.1	7262.6	7373.9	7541.7	7688.5	7859.4	7957.8	7999.8	7990.1	7773.9
12.5°	6714.3	6733.7	6774.0	6899.8	7099.8	7280.4	7528.8	7651.4	7751.4	7811.0	7578.8
15°	6267.5	6309.5	6348.2	6493.4	6717.5	6954.6	7235.2	7390.1	7544.9	7678.8	7406.3
17.5°	5919.2	5961.1	5983.6	6115.9	6354.7	6645.0	6974.0	7156.3	7349.8	7569.1	7235.2
20°	5717.6	5736.9	5727.2	5801.5	6016.0	6324.0	6714.3	6925.6	7159.4	7465.9	7064.3
22.5°	5661.1	5662.7	5627.3	5619.2	5757.9	6017.5	6436.9	6693.4	6980.4	7398.2	6917.5
25°	5798.2	5793.4	5696.6	5617.5	5632.1	5783.7	6169.1	6467.5	6830.4	7383.7	6804.7
27.5°	6103.0	6117.6	5974.0	5825.6	5678.8	5674.0	5966.0	6280.4	6707.9	7449.7	6756.3
30°	6530.4	6554.7	6401.4	6212.7	5936.9	5709.5	5886.9	6169.1	6632.1	7586.8	6748.2
32.5°	6998.2	7024.0	6907.9	6709.4	6348.2	5928.8	5941.7	6178.8	6628.8	7778.8	6803.0
35°	7496.5	7525.5	7465.9	7298.1	6896.5	6333.7	6151.4	6335.2	6733.7	8072.3	6949.8
37.5°	8053.0	8098.1	8114.3	7954.6	7525.5	6867.5	6494.9	6632.1	6970.8	8480.4	7219.2
40°	8854.6	8917.5	8912.7	8683.6	8246.5	7588.5	7025.6	7061.0	7340.1	9025.5	7649.7
42.5°	10390.0	10402.9	10001.3	9502.9	9040.0	8346.5	7651.4	7622.3	7849.7	9715.8	8283.7
45°	12343.1	12289.9	11396.4	10433.6	9869.0	9217.4	8465.8	8324.0	8496.5	10557.8	9077.2
47.5°	13964.1	13841.4	12712.5	11383.5	10746.4	10164.1	9422.3	9173.9	9269.1	11512.5	10102.9
50°	14526.9	14435.1	13499.6	12173.8	11577.0	11319.0	10599.6	10248.0	10273.9	12651.2	11304.5
52.5°	14406.0	14393.1	13768.9	12694.7	12354.5	12531.9	12267.3	11791.6	11539.9	13915.7	12601.2
55°	14120.5	14147.9	13922.2	13301.2	13243.1	13702.8	14446.3	14094.7	13312.5	15191.4	13941.5
57.5°	13128.7	13199.5	13696.3	14064.0	14673.7	15357.6	16201.1	16101.1	15220.5	16570.5	15534.9
60°	10577.1	10741.6	12073.8	13915.7	16146.3	18284.9	18662.3	18430.1	17188.1	18281.7	17639.8
62.5°	7411.1	7582.0	9165.8	12048.0	15904.3	21591.2	23062.1	22060.5	20013.8	20802.5	20363.9
65°	3967.6	4049.9	5259.5	8359.5	13426.9	22273.5	29492.6	27968.5	24487.9	23910.6	22694.5
67.5°	2188.6	2233.8	2696.7	4220.8	8599.7	19613.9	33589.2	34740.8	30079.7	25979.8	22270.3
69°	1979.0	2020.9	2324.1	3196.7	5754.6	16217.2	33189.2	36526.3	32531.3	25775.0	20702.6
70°	1935.4	1974.1	2246.7	2946.7	4657.9	13367.3	31849.0	36069.9	33115.1	25041.1	19334.9
72.5°	1741.9	1783.8	2048.4	2646.7	3980.5	6664.3	25228.2	30497.4	30065.1	21712.2	14665.6
75°	1624.1	1662.8	2111.3	2591.9	3811.2	4217.6	16631.7	22476.7	22101.0	15188.3	7907.8
77.5°	695.1	691.9	979.0	2193.5	3867.6	4083.7	8936.8	14041.5	12810.9	6491.7	2270.8
80°	464.5	456.4	464.5	645.2	3546.7	4106.3	4682.1	7127.2	5383.7	1654.8	1119.3
82.5°	400.0	393.5	408.1	393.5	1246.8	4687.0	3980.5	3790.2	2559.6	940.3	554.8
85°	269.3	258.1	351.6	353.2	588.7	4164.4	4483.7	3201.5	2070.9	558.0	274.2
87.5°	129.0	125.8	204.8	250.0	345.1	1691.9	5030.5	3280.5	2088.7	285.5	130.6
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°	8507.8	8507.8	8507.8	8507.8	8507.8	8507.8	8507.8	8507.8	8507.8	8507.8	8507.8
2.5°	8425.5	8359.5	8294.9	8217.5	8136.9	8046.5	8001.3	7956.2	7945.0	7932.0	7886.8
5°	8193.3	8099.7	7938.4	7761.0	7573.9	7391.7	7253.0	7165.9	7099.8	7065.9	7006.2
7.5°	7893.3	7756.2	7474.0	7167.5	6853.1	6565.9	6317.5	6161.1	6012.7	5943.3	5864.4
10°	7607.8	7403.0	6964.2	6512.7	6061.1	5627.3	5219.2	4930.5	4674.1	4530.5	4428.9
12.5°	7362.7	7082.0	6473.9	5862.7	5243.3	4625.7	4014.4	3533.8	3132.2	2920.8	2812.8
15°	7123.9	6785.2	6007.9	5232.1	4436.9	3596.7	2793.5	2248.3	1916.1	1783.8	1738.6
17.5°	6907.9	6473.9	5540.1	4596.6	3604.7	2588.6	1877.3	1577.4	1449.9	1406.5	1391.9
20°	6673.9	6159.5	5054.7	3932.1	2737.0	1809.6	1466.1	1333.8	1282.2	1269.3	1262.8
22.5°	6448.2	5849.8	4590.2	3220.9	1966.1	1396.7	1259.7	1204.8	1196.8	1208.0	1208.0
25°	6256.3	5572.4	4088.5	2477.4	1443.5	1175.8	1127.4	1114.5	1145.1	1187.0	1195.1
27.5°	6112.7	5345.0	3554.8	1828.9	1150.0	1022.5	1020.9	1041.9	1117.7	1198.4	1214.4
30°	6014.3	5128.9	2983.7	1319.3	964.4	900.0	925.8	971.0	1082.2	1196.8	1227.3
32.5°	5964.3	4969.2	2388.6	1020.9	825.8	790.3	833.8	888.6	998.4	1104.8	1145.1
35°	6003.1	4851.4	1827.4	851.6	729.1	701.5	746.8	799.9	864.5	909.6	940.3
37.5°	6148.2	4804.7	1378.9	762.9	662.9	637.1	672.6	703.2	729.1	741.9	756.5
40°	6461.1	4854.7	1104.8	717.7	625.7	593.5	608.0	619.3	635.5	648.3	654.8
42.5°	6922.4	5004.7	990.3	700.0	606.4	559.7	556.4	561.3	582.3	606.4	611.3
45°	7567.5	5269.2	982.2	711.3	596.8	532.2	517.7	524.2	556.4	593.5	600.0
47.5°	8391.7	5672.4	1046.8	745.1	604.8	517.7	493.6	501.6	542.0	591.9	600.0
50°	9390.0	6235.3	1154.8	795.1	640.3	521.0	485.5	490.3	532.2	587.1	595.2
52.5°	10569.0	7033.6	1272.6	843.5	677.4	542.0	491.9	480.6	519.4	567.7	577.4
55°	11880.2	8057.8	1393.5	887.1	696.7	567.7	504.8	467.7	495.1	535.5	543.5
57.5°	13489.9	9490.0	1603.2	929.0	709.6	585.4	517.7	454.8	464.5	493.6	500.0
60°	15668.8	11515.8	1972.6	998.4	738.7	591.9	516.1	443.6	433.8	450.0	453.2
62.5°	18280.0	13715.7	2280.6	1085.5	787.1	596.8	506.5	435.5	408.1	408.1	411.2
65°	19830.0	14304.4	2109.6	1158.0	827.4	591.9	495.1	427.4	388.7	370.9	372.6
67.5°	18515.5	12580.2	1808.0	1172.5	825.8	569.4	477.4	412.9	369.4	342.0	340.3
69°	16868.8	10854.5	1672.5	1133.8	787.1	540.3	454.8	396.8	354.9	325.8	324.2
70°	15541.5	9801.3	1583.8	1091.9	745.1	519.4	437.1	382.3	343.5	316.1	312.9
72.5°	11299.6	6422.4	1353.2	938.7	614.5	435.5	377.4	335.4	306.5	290.3	287.0
75°	5646.6	3062.8	1098.3	761.3	471.0	348.4	309.6	280.6	266.1	262.9	261.3
77.5°	1854.8	1403.2	785.4	567.7	350.0	272.6	250.0	229.0	225.8	235.5	232.2
80°	1019.4	816.1	498.4	375.8	238.7	200.0	196.8	185.5	190.3	206.4	203.3
82.5°	519.4	424.2	308.0	225.8	161.3	143.5	156.4	150.0	156.4	170.9	169.3
85°	256.5	232.2	195.2	137.1	106.5	92.0	111.3	116.1	119.4	130.6	130.6
87.5°	148.4	137.1	103.2	64.5	53.2	48.4	64.5	62.9	74.2	80.6	79.1
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)