

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: P191982

Luminaire Tested: **GLEON-AF-04-LED-E1-SL3-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191982
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-04-LED-E1-SL3-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 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: 26342 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 258
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

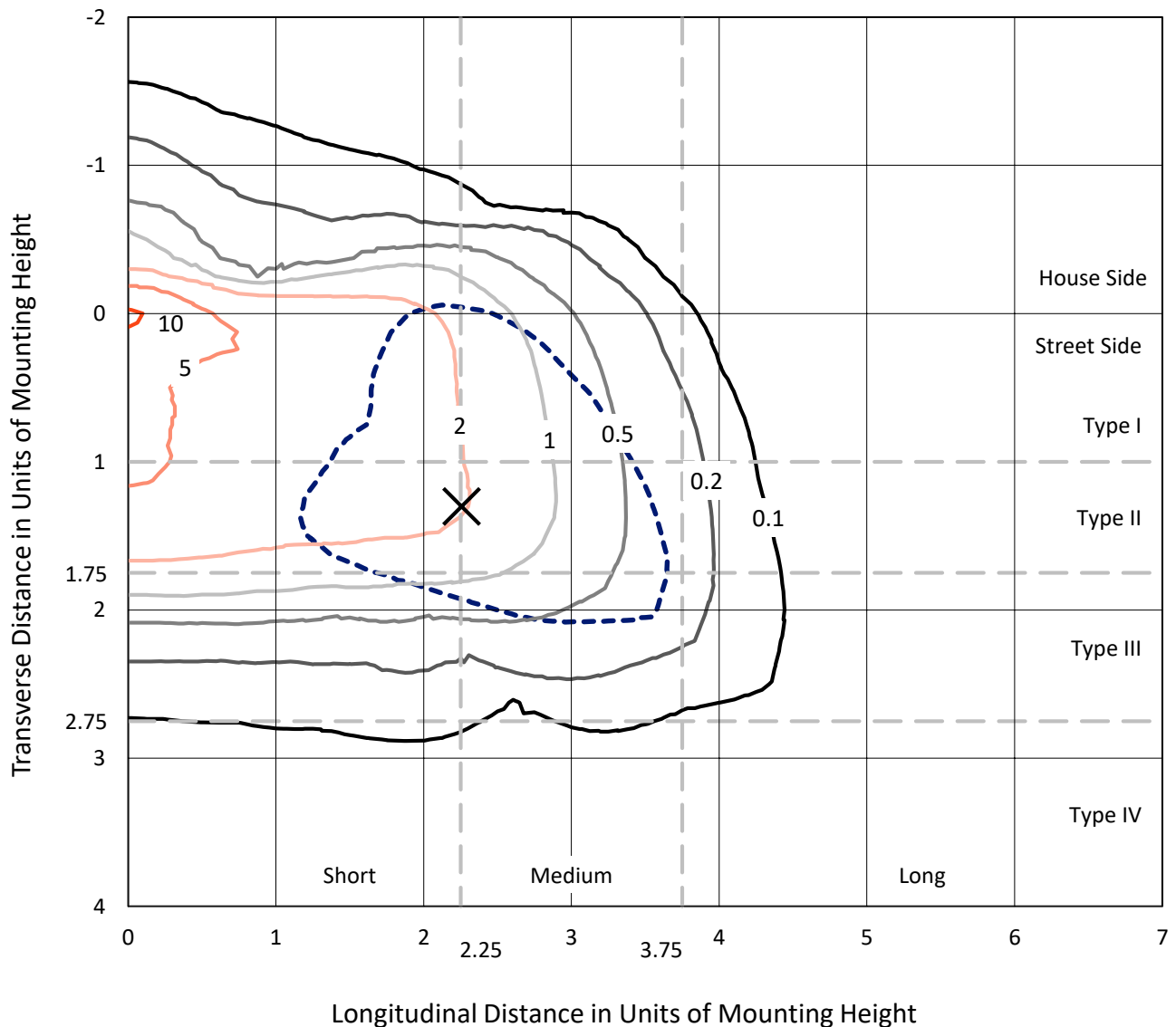


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

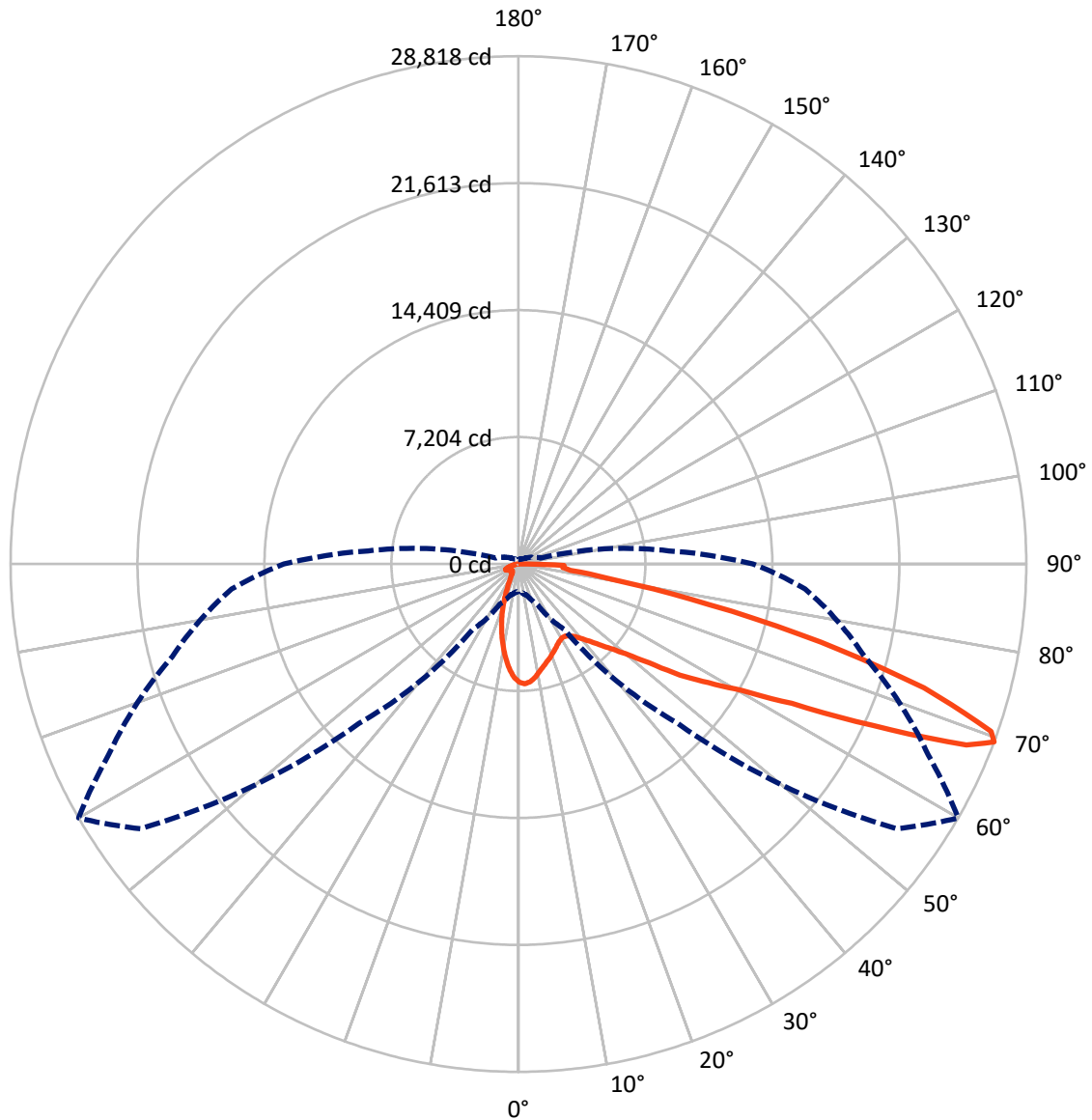


Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type III - Medium - Non-Cutoff

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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	3747.6	0.0	3747.6
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	22594.4	0.0	22594.4
	% Fixture	85.8	0.0	85.8
Total	Lumens	26342.0	0.0	26342.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	567.6	2.2
10°-20°	1209.2	4.6
20°-30°	1540.8	5.8
30°-40°	2118.1	8.0
40°-50°	3436.9	13.0
50°-60°	5511.9	20.9
60°-70°	7335.9	27.8
70°-80°	3960.8	15.0
80°-90°	660.9	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°	26342.0	100.0
0°-180°	26342.0	100.0



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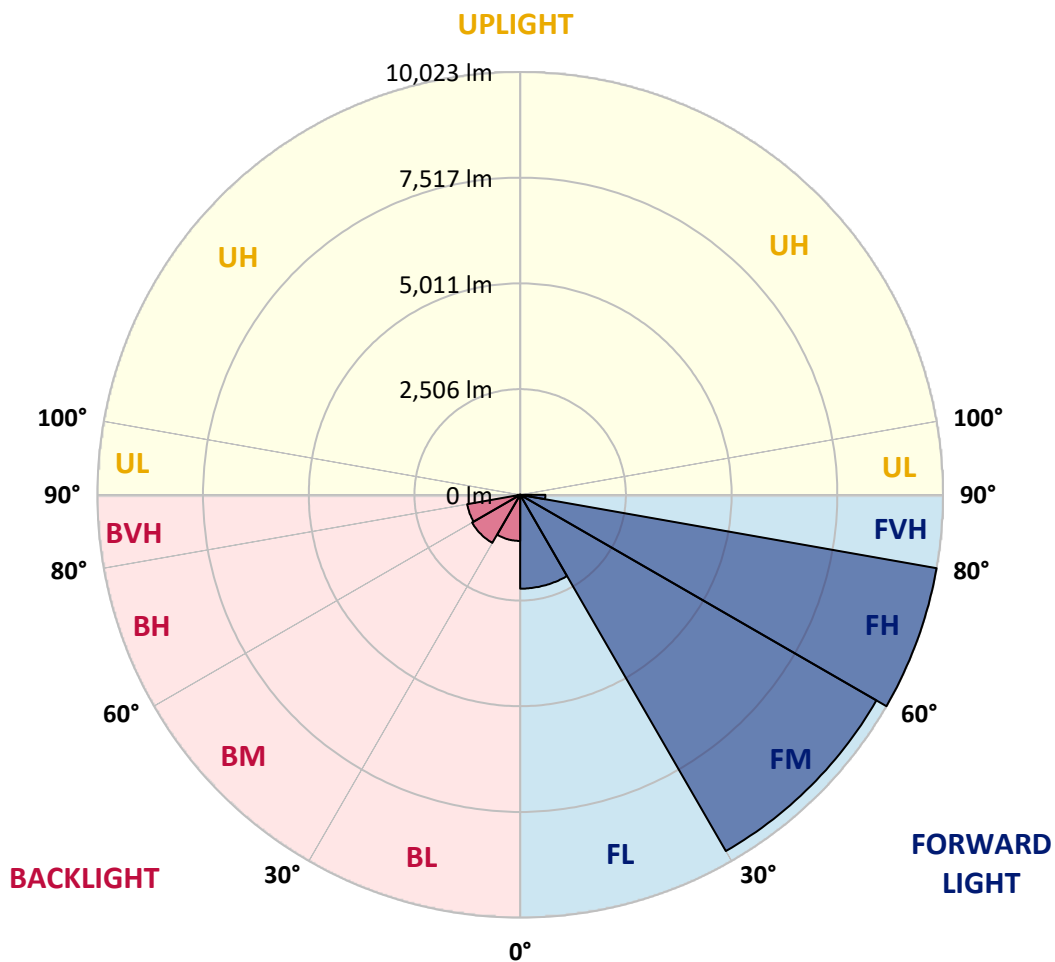
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2224.2	8.4			
FM	(30°-60°)	9750.3	37.0			
FH	(60°-80°)	10022.6	38.0			G4/12000
FVH	(80°-90°)	597.2	2.3			G4/750
BL	(0°-30°)	1093.3	4.2	B3/2500		
BM	(30°-60°)	1316.6	5.0	B2/2500		
BH	(60°-80°)	1274.1	4.8	B3/2500		G3/2500
BVH	(80°-90°)	63.6	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-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	6712.3	6712.3	6712.3	6712.3	6712.3	6712.3	6712.3	6712.3	6712.3	6712.3	6712.3
2.5°	6849.8	6865.0	6858.7	6854.9	6866.3	6848.5	6811.6	6800.1	6782.3	6740.3	6669.1
5°	6592.7	6638.5	6636.0	6670.3	6727.6	6742.9	6726.3	6728.9	6695.8	6643.6	6525.3
7.5°	6148.6	6167.7	6177.9	6253.0	6357.3	6441.3	6512.6	6535.5	6520.2	6475.7	6323.0
10°	5690.5	5705.8	5730.0	5817.8	5950.1	6065.9	6200.8	6278.4	6311.5	6303.9	6133.4
12.5°	5297.3	5312.6	5344.4	5443.7	5601.5	5744.0	5939.9	6036.7	6115.5	6162.6	5979.4
15°	4944.9	4977.9	5008.5	5123.0	5299.9	5486.9	5708.4	5830.5	5952.7	6058.3	5843.2
17.5°	4670.0	4703.1	4720.9	4825.3	5013.6	5242.6	5502.2	5646.0	5798.7	5971.8	5708.4
20°	4510.9	4526.2	4518.6	4577.1	4746.4	4989.4	5297.3	5464.0	5648.5	5890.3	5573.5
22.5°	4466.4	4467.7	4439.7	4433.3	4542.8	4747.6	5078.5	5280.8	5507.3	5836.9	5457.7
25°	4574.6	4570.8	4494.4	4432.1	4443.5	4563.1	4867.2	5102.7	5389.0	5825.4	5368.6
27.5°	4815.1	4826.5	4713.3	4596.2	4480.4	4476.6	4706.9	4955.0	5292.3	5877.6	5330.4
30°	5152.3	5171.4	5050.5	4901.6	4684.0	4504.6	4644.6	4867.2	5232.4	5985.8	5324.1
32.5°	5521.3	5541.7	5450.0	5293.5	5008.5	4677.6	4687.8	4874.9	5229.9	6137.2	5367.3
35°	5914.5	5937.4	5890.3	5758.0	5441.1	4997.0	4853.2	4998.3	5312.6	6368.8	5483.1
37.5°	6353.5	6389.1	6401.9	6275.9	5937.4	5418.2	5124.3	5232.4	5499.7	6690.7	5695.6
40°	6985.9	7035.6	7031.7	6851.0	6506.2	5987.0	5542.9	5570.9	5791.1	7120.8	6035.4
42.5°	8197.3	8207.5	7890.7	7497.5	7132.3	6585.1	6036.7	6013.7	6193.2	7665.4	6535.5
45°	9738.3	9696.3	8991.4	8231.7	7786.3	7272.2	6679.3	6567.3	6703.4	8329.7	7161.5
47.5°	11017.1	10920.4	10029.7	8981.2	8478.5	8019.2	7433.8	7237.9	7313.0	9083.0	7970.8
50°	11461.2	11388.7	10650.7	9604.7	9133.9	8930.3	8362.8	8085.3	8105.7	9981.3	8918.8
52.5°	11365.8	11355.6	10863.2	10015.7	9747.2	9887.2	9678.5	9303.1	9104.6	10979.0	9941.9
55°	11140.6	11162.2	10984.1	10494.2	10448.3	10811.0	11397.6	11120.2	10503.1	11985.5	10999.3
57.5°	10358.0	10414.0	10805.9	11096.0	11577.0	12116.6	12782.1	12703.2	12008.4	13073.5	12256.5
60°	8344.9	8474.7	9525.8	10979.0	12738.8	14426.1	14723.9	14540.6	13560.8	14423.6	13917.1
62.5°	5847.1	5981.9	7231.5	9505.4	12547.9	17034.7	18195.2	17405.0	15790.2	16412.5	16066.4
65°	3130.3	3195.2	4149.6	6595.3	10593.4	17573.0	23268.6	22066.1	19320.1	18864.5	17905.1
67.5°	1726.8	1762.4	2127.6	3330.1	6784.9	15474.7	26500.7	27409.3	23731.8	20497.1	17570.4
69°	1561.3	1594.4	1833.6	2522.1	4540.2	12794.8	26185.1	28817.9	25666.0	20335.5	16333.6
70°	1527.0	1557.5	1772.6	2324.8	3674.9	10546.3	25127.7	28457.8	26126.6	19756.6	15254.5
72.5°	1374.3	1407.4	1616.1	2088.1	3140.5	5257.9	19904.2	24061.4	23720.3	17130.2	11570.7
75°	1281.4	1311.9	1665.7	2044.9	3006.9	3327.5	13121.8	17733.3	17436.8	11983.0	6239.0
77.5°	548.4	545.9	772.4	1730.6	3051.4	3221.9	7050.8	11078.2	10107.3	5121.7	1791.7
80°	366.5	360.1	366.5	509.0	2798.2	3239.7	3694.0	5623.1	4247.5	1305.6	883.1
82.5°	315.6	310.5	321.9	310.5	983.6	3697.8	3140.5	2990.3	2019.4	741.9	437.7
85°	212.5	203.6	277.4	278.7	464.5	3285.5	3537.5	2525.9	1633.9	440.3	216.3
87.5°	101.8	99.3	161.6	197.2	272.3	1334.8	3968.9	2588.2	1647.9	225.2	103.1
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°	6712.3	6712.3	6712.3	6712.3	6712.3	6712.3	6712.3	6712.3	6712.3	6712.3	6712.3
2.5°	6647.4	6595.3	6544.4	6483.3	6419.7	6348.4	6312.8	6277.2	6268.2	6258.1	6222.4
5°	6464.2	6390.4	6263.2	6123.2	5975.6	5831.8	5722.4	5653.6	5601.5	5574.7	5527.7
7.5°	6227.5	6119.4	5896.7	5654.9	5406.8	5180.3	4984.3	4860.9	4743.8	4689.1	4626.7
10°	6002.3	5840.7	5494.6	5138.3	4782.0	4439.7	4117.8	3890.0	3687.7	3574.4	3494.2
12.5°	5808.9	5587.5	5107.7	4625.5	4136.8	3649.5	3167.2	2788.0	2471.2	2304.5	2219.2
15°	5620.6	5353.3	4740.0	4127.9	3500.6	2837.6	2203.9	1773.8	1511.7	1407.4	1371.7
17.5°	5450.0	5107.7	4371.0	3626.6	2844.0	2042.3	1481.2	1244.5	1144.0	1109.6	1098.2
20°	5265.5	4859.6	3988.0	3102.3	2159.4	1427.7	1156.7	1052.3	1011.6	1001.4	996.4
22.5°	5087.4	4615.3	3621.5	2541.1	1551.2	1102.0	993.8	950.5	944.2	953.1	953.1
25°	4936.0	4396.4	3225.7	1954.5	1138.9	927.6	889.5	879.3	903.5	936.5	942.9
27.5°	4822.7	4217.0	2804.5	1443.0	907.3	806.8	805.5	822.0	881.8	945.5	958.2
30°	4745.1	4046.5	2354.1	1040.9	760.9	710.0	730.4	766.0	853.8	944.2	968.4
32.5°	4705.6	3920.5	1884.5	805.5	651.5	623.5	657.9	701.1	787.7	871.7	903.5
35°	4736.2	3827.6	1441.7	671.9	575.2	553.5	589.2	631.2	682.1	717.7	741.9
37.5°	4850.7	3790.7	1088.0	601.9	523.0	502.6	530.6	554.8	575.2	585.3	596.8
40°	5097.6	3830.2	871.7	566.3	493.7	468.3	479.7	488.6	501.4	511.5	516.6
42.5°	5461.5	3948.5	781.3	552.3	478.5	441.6	439.0	442.8	459.4	478.5	482.3
45°	5970.5	4157.2	774.9	561.2	470.8	419.9	408.5	413.6	439.0	468.3	473.4
47.5°	6620.7	4475.3	825.8	587.9	477.2	408.5	389.4	395.7	427.6	467.0	473.4
50°	7408.4	4919.4	911.1	627.3	505.2	411.0	383.0	386.8	419.9	463.2	469.5
52.5°	8338.6	5549.3	1004.0	665.5	534.4	427.6	388.1	379.2	409.7	447.9	455.5
55°	9373.1	6357.3	1099.4	699.9	549.7	447.9	398.3	369.0	390.7	422.5	428.8
57.5°	10643.0	7487.3	1264.8	732.9	559.9	461.9	408.5	358.8	366.5	389.4	394.5
60°	12362.2	9085.5	1556.2	787.7	582.8	467.0	407.2	349.9	342.3	355.0	357.6
62.5°	14422.3	10821.2	1799.3	856.4	621.0	470.8	399.6	343.6	321.9	321.9	324.5
65°	15645.2	11285.6	1664.4	913.6	652.8	467.0	390.7	337.2	306.7	292.7	293.9
67.5°	14608.1	9925.4	1426.5	925.1	651.5	449.2	376.7	325.8	291.4	269.8	268.5
69°	13308.9	8563.8	1319.6	894.6	621.0	426.3	358.8	313.0	279.9	257.0	255.8
70°	12261.6	7732.9	1249.6	861.5	587.9	409.7	344.8	301.6	271.0	249.4	246.9
72.5°	8915.0	5067.0	1067.6	740.6	484.8	343.6	297.8	264.7	241.8	229.0	226.5
75°	4455.0	2416.4	866.6	600.6	371.6	274.9	244.3	221.4	210.0	207.4	206.1
77.5°	1463.4	1107.1	619.7	447.9	276.1	215.0	197.2	180.7	178.1	185.8	183.2
80°	804.2	643.9	393.2	296.5	188.3	157.8	155.2	146.3	150.2	162.9	160.3
82.5°	409.7	334.7	243.0	178.1	127.2	113.3	123.4	118.3	123.4	134.9	133.6
85°	202.3	183.2	154.0	108.2	84.0	72.5	87.8	91.6	94.2	103.1	103.1
87.5°	117.1	108.2	81.4	50.9	42.0	38.2	50.9	49.6	58.5	63.6	62.4
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)