

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: P191761

Luminaire Tested: **GLEON-AF-03-LED-E1-AFL-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191761
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-03-LED-E1-AFL-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15063 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 124
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

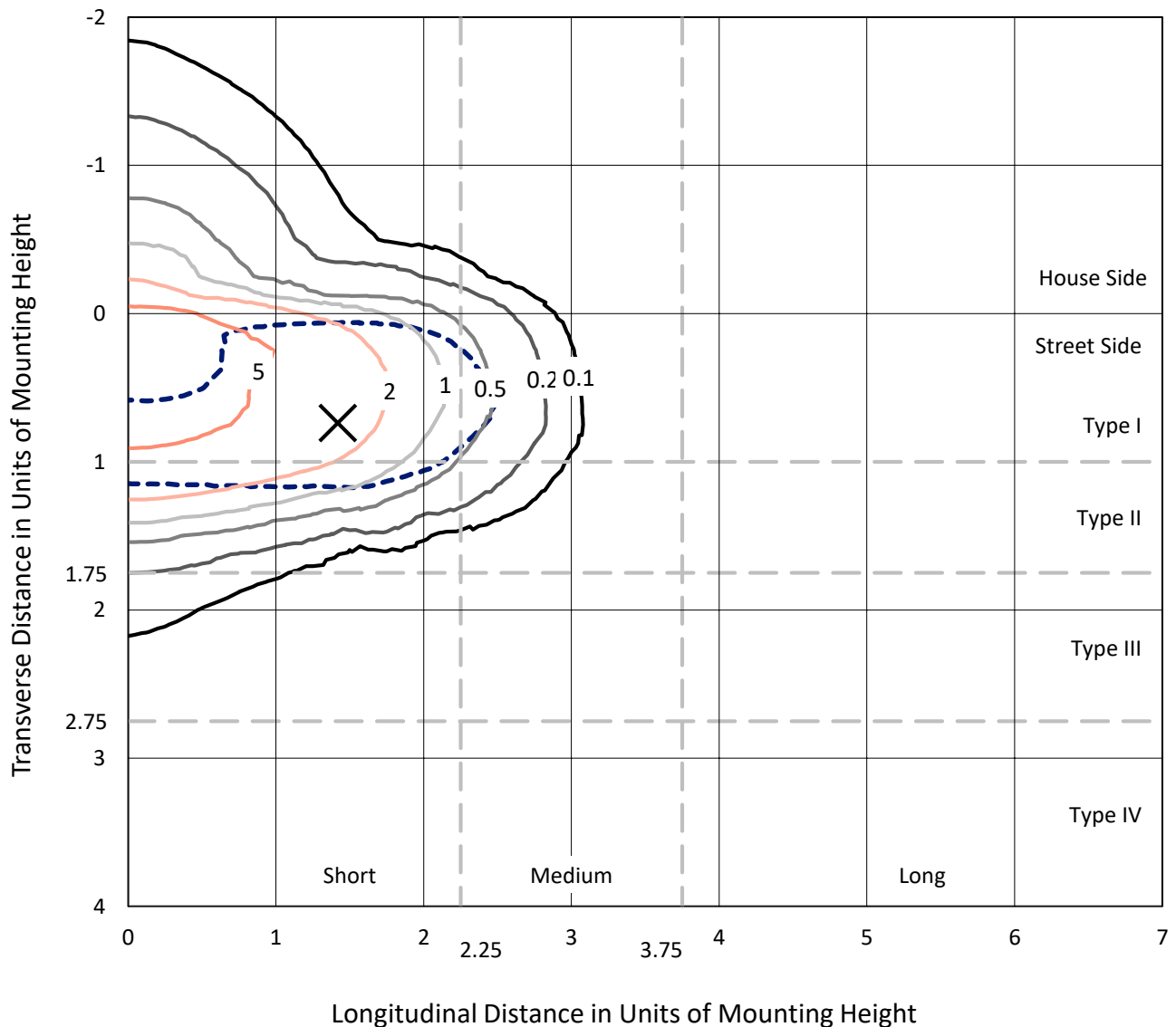


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Iso-Footcandle Lines of Horizontal Illumination

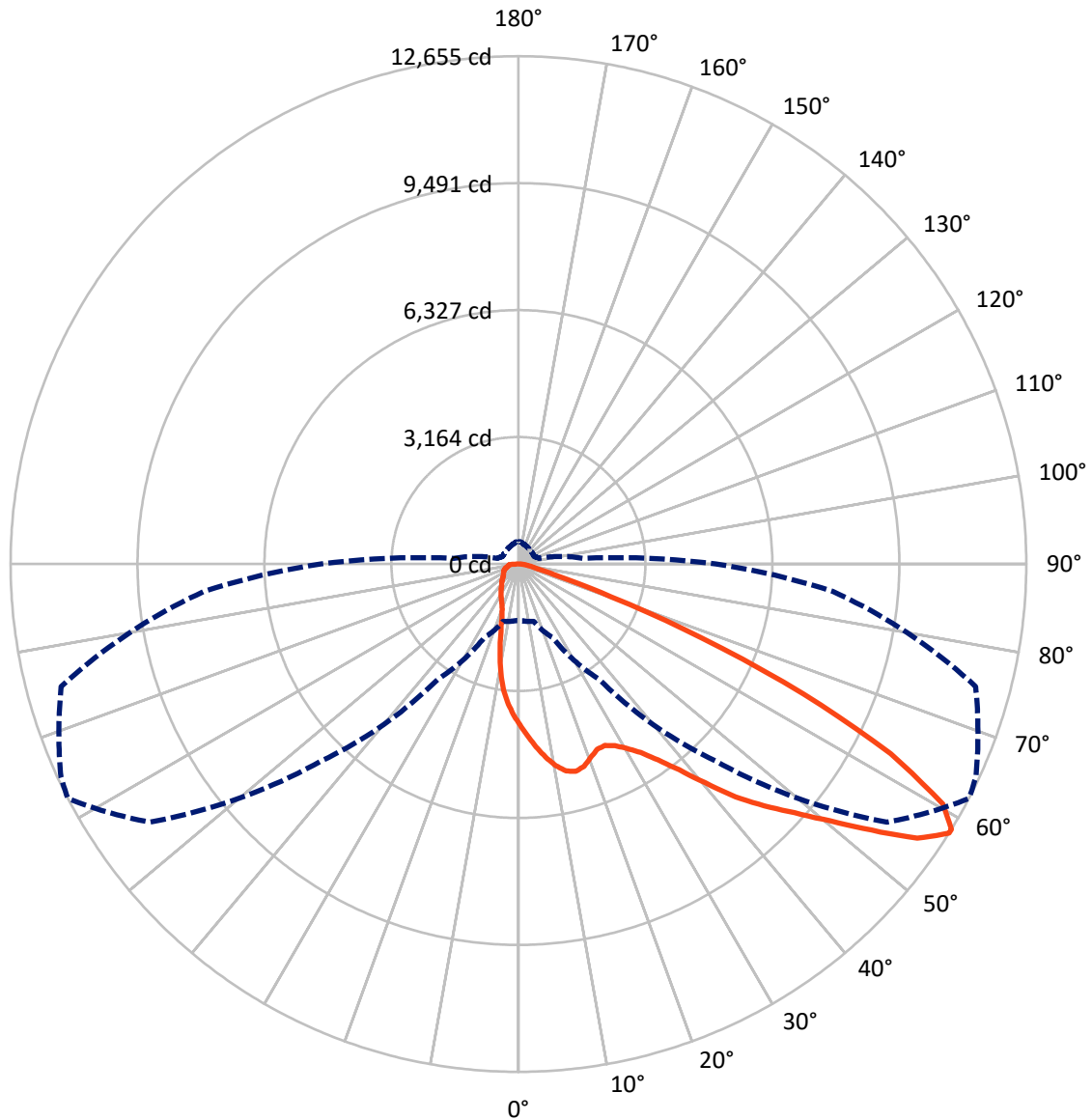
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2297.2	0.0	2297.2
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	12765.8	0.0	12765.8
	% Fixture	84.7	0.0	84.7
Total	Lumens	15063.0	0.0	15063.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.8	2.4
10°-20°	914.7	6.1
20°-30°	1478.7	9.8
30°-40°	2347.4	15.6
40°-50°	3434.7	22.8
50°-60°	3592.4	23.8
60°-70°	2122.4	14.1
70°-80°	597.9	4.0
80°-90°	217.1	1.4
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°	15063.0	100.0
0°-180°	15063.0	100.0

Coefficient of Utilization



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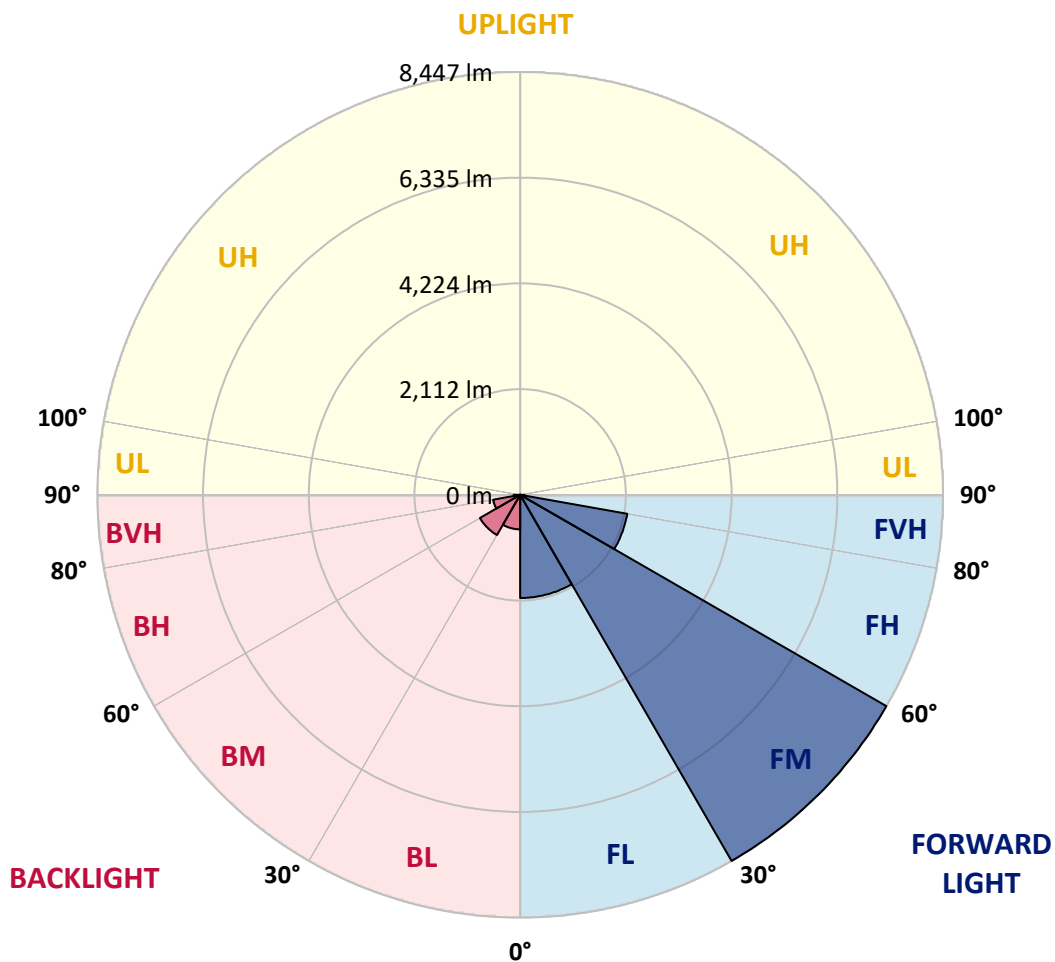
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2060.8	13.7			
FM (30°-60°)	8447.2	56.1			
FH (60°-80°)	2172.1	14.4			G2/5000
FVH (80°-90°)	85.6	0.6			G1/100
BL (0°-30°)	690.4	4.6	B2/1000		
BM (30°-60°)	927.2	6.2	B1/1000		
BH (60°-80°)	548.1	3.6	B2/1000		G2/1000
BVH (80°-90°)	131.4	0.9			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	4001.2	4001.2	4001.2	4001.2	4001.2	4001.2	4001.2	4001.2	4001.2	4001.2	4001.2
2.5°	4572.2	4535.3	4511.9	4491.3	4464.4	4406.9	4329.6	4280.6	4255.8	4171.4	4071.4
5°	5020.4	4987.8	4963.7	4936.0	4887.8	4797.7	4672.9	4573.6	4524.6	4355.8	4155.8
7.5°	4915.5	4928.9	4970.8	5043.9	5106.3	5094.2	4982.9	4856.6	4792.1	4557.3	4253.7
10°	4282.8	4306.2	4378.5	4549.5	4826.1	5109.8	5196.4	5109.1	5043.9	4756.6	4354.4
12.5°	4155.8	4155.1	4160.8	4206.2	4370.7	4770.1	5203.4	5291.4	5252.4	4946.7	4457.3
15°	4207.6	4209.0	4204.7	4223.9	4275.0	4433.1	4986.4	5361.6	5389.3	5138.2	4563.7
17.5°	4343.8	4340.2	4323.9	4323.9	4342.4	4404.1	4731.1	5296.4	5424.0	5307.7	4657.3
20°	4572.2	4555.9	4512.6	4472.9	4453.0	4486.3	4626.1	5146.0	5363.8	5456.0	4734.6
22.5°	4848.8	4836.0	4765.8	4680.7	4611.9	4611.2	4680.0	5014.8	5259.5	5595.7	4799.9
25°	5206.3	5185.7	5081.4	4945.3	4824.7	4778.6	4797.7	5008.4	5202.7	5747.5	4858.0
27.5°	5626.2	5588.6	5465.2	5268.7	5091.4	4998.5	4970.8	5124.0	5254.5	5935.4	4938.9
30°	6135.5	6092.2	5934.0	5678.0	5427.6	5275.1	5216.2	5329.0	5426.2	6164.6	5068.7
32.5°	6715.0	6652.6	6469.6	6187.3	5858.1	5625.5	5529.7	5599.9	5677.3	6440.5	5231.1
35°	7515.8	7441.3	7176.7	6787.3	6415.6	6095.8	5942.5	5993.6	6068.8	6851.9	5465.9
37.5°	8061.9	8028.6	7852.7	7486.7	7082.4	6714.3	6477.4	6507.1	6549.7	7366.1	5766.6
40°	8057.0	8070.5	8074.0	8077.5	7802.3	7449.8	7195.2	7164.0	7155.5	7930.7	6108.5
42.5°	7653.4	7708.7	7887.5	8249.9	8417.3	8255.6	8022.2	7932.1	7887.5	8596.0	6471.0
45°	7035.6	7065.4	7400.2	8108.0	8732.2	9053.5	8876.9	8593.2	8512.3	9207.5	6771.7
47.5°	6717.1	6749.7	6960.4	7732.1	8728.7	9698.3	9800.4	9260.0	9115.3	9739.4	7031.3
50°	5958.9	6026.9	6292.2	7078.1	8410.2	9994.8	10765.8	10054.4	9755.0	10257.2	7291.6
52.5°	4566.5	4671.5	4968.7	6002.8	7602.3	9848.0	11538.2	11017.6	10594.9	10793.5	7515.1
55°	2880.5	2958.5	3208.2	4239.5	6081.6	9084.0	11831.2	12059.6	11683.6	11301.3	7708.7
57.5°	1566.1	1600.9	1694.5	2340.7	3955.8	7395.2	11404.2	12652.5	12496.5	11732.6	7854.8
58°	1401.6	1425.0	1483.2	2028.6	3508.2	6933.4	11214.8	12654.7	12576.7	11795.7	7866.2
60°	1039.8	1027.8	976.0	1157.6	1952.7	4789.9	10070.0	12148.2	12377.3	11873.0	7810.8
62.5°	913.6	884.5	778.8	766.8	949.8	2206.6	7705.2	10406.2	10947.4	11431.8	7474.6
65°	858.3	827.0	690.9	646.9	685.2	933.4	4538.8	7804.5	8483.3	10094.1	6615.0
67.5°	817.1	776.7	634.8	574.5	577.4	617.1	1819.4	4915.5	5679.4	7664.0	5145.3
70°	777.4	733.4	587.3	517.8	501.5	488.0	723.5	2460.6	3153.6	4841.0	3280.5
72.5°	734.8	691.6	545.5	473.1	441.2	396.5	472.4	1006.5	1405.8	2290.3	1488.1
75°	673.1	634.1	503.6	433.4	388.0	328.4	356.8	525.6	630.6	912.2	717.1
77.5°	597.2	565.3	456.8	400.8	344.0	266.7	274.5	364.6	404.3	522.0	426.3
80°	429.1	440.5	406.4	360.3	306.4	216.3	210.7	266.0	287.3	335.5	277.3
82.5°	301.5	307.8	336.2	294.4	253.2	170.2	155.3	187.3	200.0	220.6	149.7
85°	207.8	200.7	230.5	205.0	183.0	113.5	106.4	127.0	134.8	136.9	77.3
87.5°	124.8	124.8	133.3	109.9	98.6	58.9	57.5	72.3	77.3	73.8	42.6
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°	4001.2	4001.2	4001.2	4001.2	4001.2	4001.2	4001.2	4001.2	4001.2	4001.2	4001.2
2.5°	4011.8	3961.5	3854.4	3768.5	3660.0	3547.2	3484.1	3416.7	3370.6	3337.3	3390.5
5°	4042.3	3939.5	3718.2	3508.2	3276.3	3035.1	2852.1	2681.9	2563.4	2489.7	2559.2
7.5°	4090.6	3932.4	3579.9	3220.9	2804.6	2403.1	2044.2	1819.4	1688.1	1623.6	1664.0
10°	4145.9	3921.0	3417.4	2831.5	2235.7	1730.0	1461.9	1371.1	1341.3	1329.2	1334.9
12.5°	4192.0	3896.9	3218.1	2360.6	1678.9	1366.1	1288.8	1286.7	1293.1	1294.5	1296.6
15°	4224.6	3861.4	2922.3	1869.7	1342.7	1244.8	1240.6	1253.3	1265.4	1270.4	1273.2
17.5°	4246.6	3788.4	2588.2	1478.2	1203.0	1186.0	1195.9	1212.2	1225.0	1228.5	1231.4
20°	4244.5	3681.3	2190.3	1232.8	1127.1	1127.1	1144.1	1156.9	1157.6	1153.3	1155.5
22.5°	4222.5	3534.5	1804.5	1102.3	1059.7	1071.8	1088.8	1076.7	1027.1	994.4	996.6
25°	4185.6	3359.3	1473.9	1019.3	997.3	1018.6	1013.6	922.8	851.9	820.0	820.0
27.5°	4153.0	3152.1	1220.0	946.9	934.9	961.1	873.2	790.9	761.1	746.2	741.2
30°	4129.6	2928.7	1050.5	877.4	876.0	856.8	757.5	734.8	729.9	717.8	713.6
32.5°	4135.2	2702.4	942.0	816.4	821.4	733.4	702.2	707.2	702.9	690.2	684.5
35°	4182.1	2487.5	871.0	761.1	746.2	662.5	669.6	678.8	677.4	659.7	654.0
37.5°	4265.7	2284.0	824.2	715.0	651.1	627.0	638.4	652.6	649.0	637.0	632.7
40°	4353.7	2092.4	785.9	678.8	595.1	602.9	612.8	620.6	624.2	627.7	624.9
42.5°	4439.5	1892.4	739.1	641.9	571.7	580.2	584.5	592.3	611.4	624.9	624.2
45°	4490.6	1704.5	690.9	589.4	553.3	558.2	555.4	571.0	594.4	616.4	617.1
47.5°	4547.3	1558.3	652.6	541.2	535.5	539.1	530.6	546.2	567.4	594.4	597.2
50°	4616.1	1471.1	622.1	502.9	511.4	511.4	509.3	523.5	553.3	584.5	590.1
52.5°	4694.2	1454.1	596.5	475.2	487.3	486.6	488.7	510.0	542.6	573.1	578.1
55°	4789.2	1500.2	568.9	454.7	463.9	466.7	473.8	497.9	525.6	560.3	562.5
57.5°	4899.9	1593.8	546.9	438.3	442.6	451.8	463.2	485.2	515.0	553.3	555.4
58°	4918.3	1613.7	543.3	436.9	438.3	449.0	461.8	483.0	512.8	554.7	556.8
60°	4919.0	1679.6	535.5	430.5	422.0	439.8	454.0	475.2	509.3	559.6	564.6
62.5°	4744.5	1678.9	529.8	421.3	405.0	427.0	443.3	468.1	505.7	571.7	581.6
65°	4177.8	1525.7	502.9	407.1	391.5	415.7	434.1	463.2	515.7	624.2	630.6
67.5°	3267.8	1250.5	452.5	387.3	373.8	404.3	428.4	462.5	526.3	636.2	640.5
70°	2160.5	935.6	397.2	364.6	355.4	390.8	431.3	486.6	514.2	610.7	599.4
72.5°	1121.4	656.8	352.5	336.2	334.1	378.8	472.4	483.7	502.2	574.5	560.3
75°	588.7	456.1	313.5	305.0	308.5	375.9	557.5	471.0	486.6	549.7	576.7
77.5°	360.3	368.1	280.2	276.6	283.7	367.4	556.8	454.7	463.9	505.7	535.5
80°	241.2	298.6	254.6	255.3	260.3	336.2	500.1	429.1	436.2	478.1	508.6
82.5°	152.5	176.6	231.2	243.3	236.9	277.3	424.9	390.8	400.8	546.9	578.1
85°	77.3	110.7	200.7	234.1	213.5	194.3	344.7	342.6	347.6	394.4	412.1
87.5°	35.5	61.0	156.8	204.3	161.0	121.3	250.4	253.9	273.8	280.2	280.2
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)