

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: P191255

Luminaire Tested: **GLEON-AF-07-LED-E1-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191255
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
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-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40924.1 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

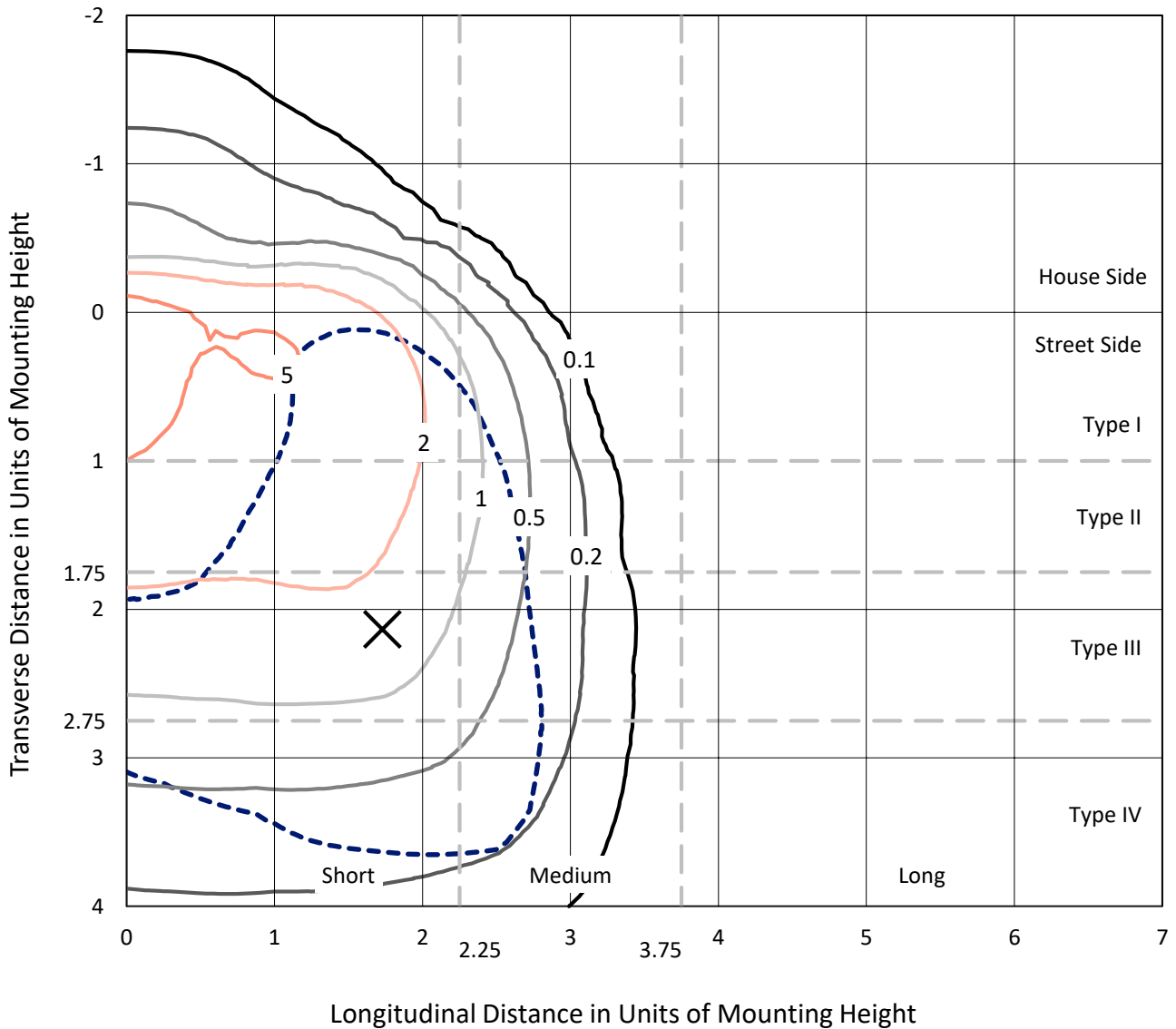
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

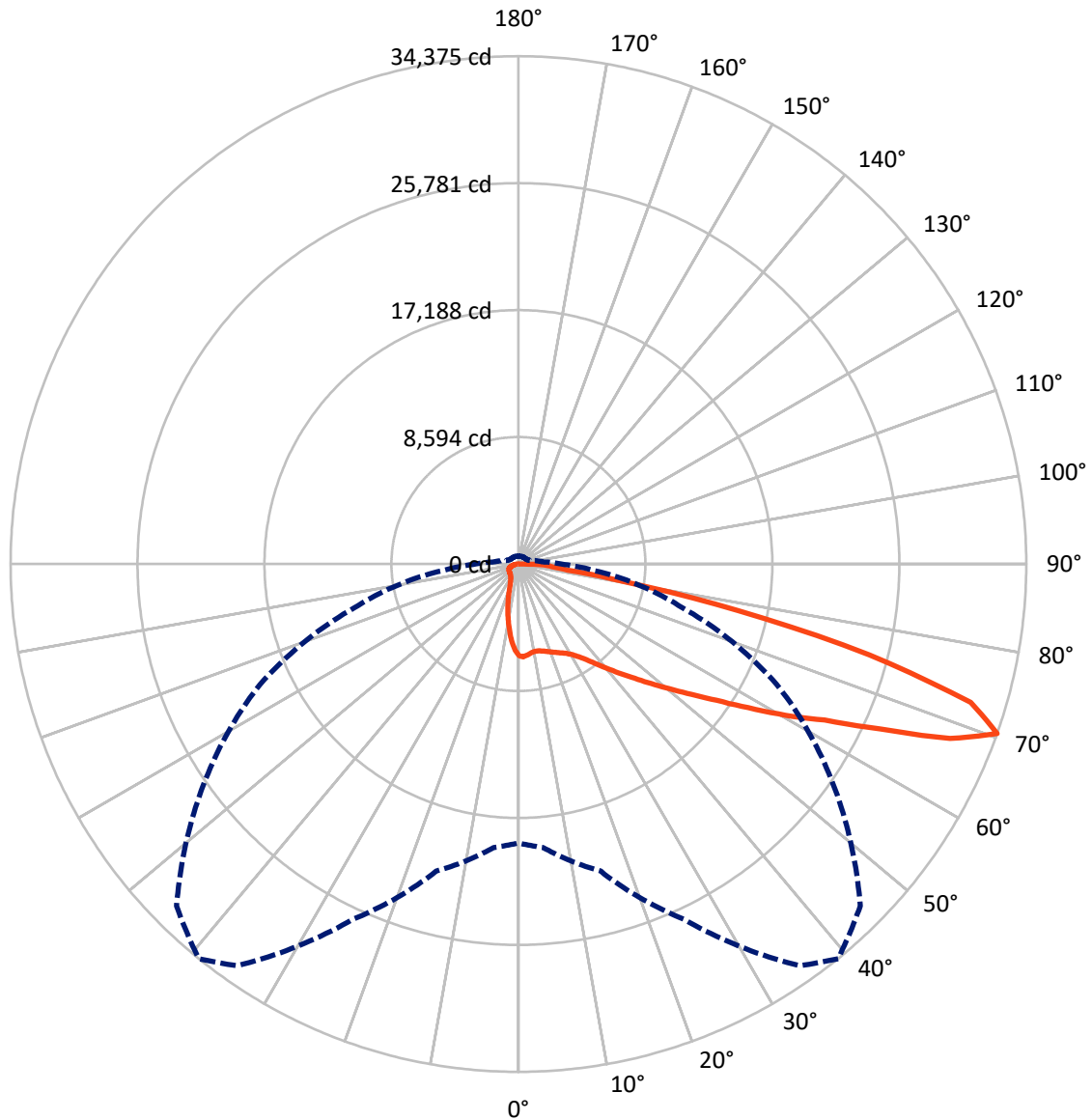
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.9 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4654.4	0.0	4654.4
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	36269.7	0.0	36269.7
	% Fixture	88.6	0.0	88.6
Total	Lumens	40924.1	0.0	40924.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	533.2	1.3
10°-20°	1332.8	3.3
20°-30°	2075.2	5.1
30°-40°	3232.7	7.9
40°-50°	5427.2	13.3
50°-60°	8621.5	21.1
60°-70°	11500.1	28.1
70°-80°	6944.6	17.0
80°-90°	1256.9	3.1
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°	40924.1	100.0
0°-180°	40924.1	100.0



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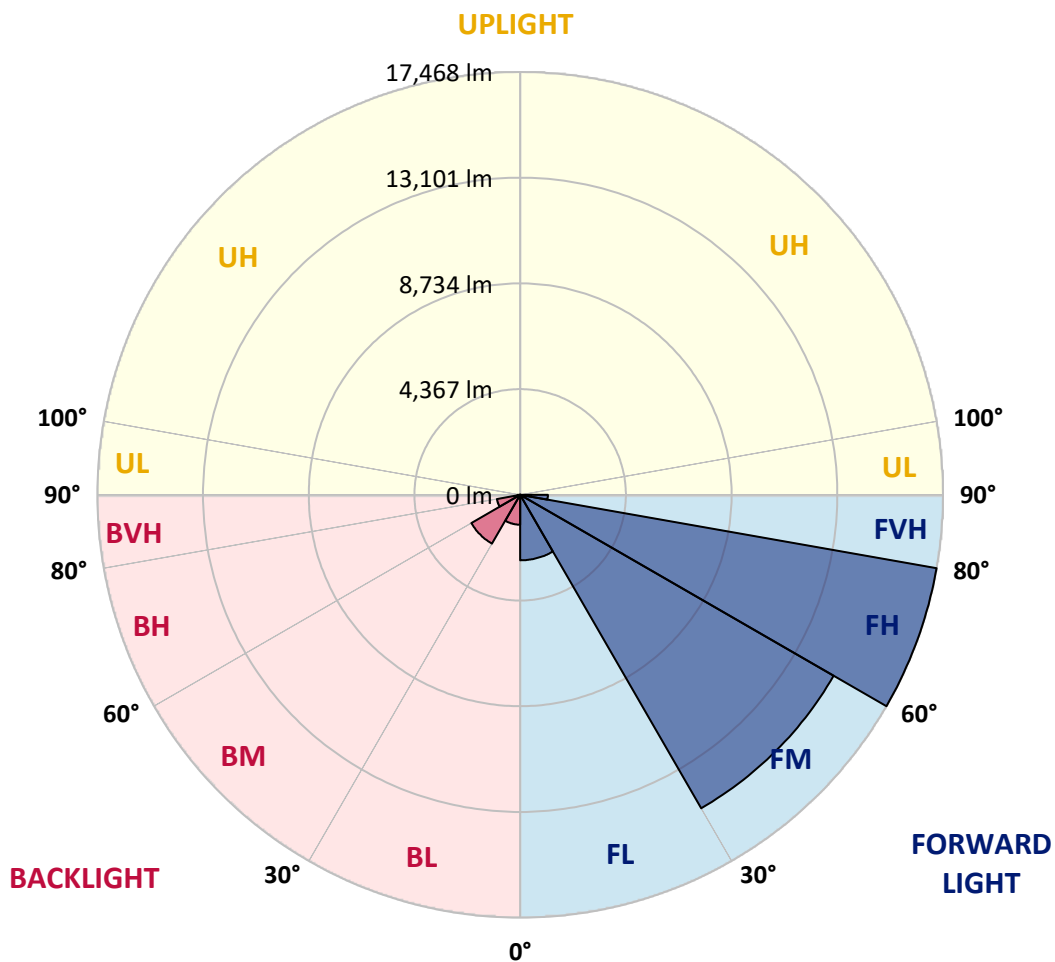
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2706.4	6.6			
FM	(30°-60°)	14952.1	36.5			
FH	(60°-80°)	17467.6	42.7			G5
FVH	(80°-90°)	1143.6	2.8			G5
BL	(0°-30°)	1234.7	3.0	B3/2500		
BM	(30°-60°)	2329.3	5.7	B2/2500		
BH	(60°-80°)	977.2	2.4	B2/1000		G2/1000
BVH	(80°-90°)	113.3	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	6212.9	6212.9	6212.9	6212.9	6212.9	6212.9	6212.9	6212.9	6212.9	6212.9	6212.9
2.5°	6333.6	6331.6	6314.9	6302.4	6292.0	6287.9	6296.2	6265.0	6237.9	6204.6	6169.2
5°	6285.7	6283.7	6256.6	6231.6	6206.7	6198.4	6196.3	6140.1	6106.8	6056.9	5990.3
7.5°	6233.8	6223.3	6187.9	6146.3	6102.6	6081.9	6061.0	5988.3	5950.7	5900.8	5823.9
10°	6179.6	6167.2	6133.8	6092.3	6050.7	6019.5	5984.1	5913.3	5873.8	5836.3	5746.8
12.5°	6123.5	6113.1	6104.8	6086.0	6056.9	6029.8	6002.8	5942.4	5900.8	5857.1	5753.1
15°	6115.1	6111.0	6129.7	6142.2	6125.5	6108.9	6079.8	6027.7	5984.1	5940.4	5805.1
17.5°	6181.7	6179.6	6227.5	6260.8	6252.5	6223.3	6183.8	6125.5	6090.1	6052.7	5884.2
20°	6327.4	6337.8	6396.0	6439.7	6398.1	6356.5	6292.0	6210.8	6192.1	6175.5	5965.3
22.5°	6602.0	6612.5	6654.0	6670.7	6562.4	6502.2	6412.7	6308.6	6296.2	6308.6	6063.1
25°	7030.6	7020.2	7014.0	6951.6	6753.9	6660.2	6545.9	6437.6	6443.9	6500.0	6200.4
27.5°	7598.7	7542.5	7455.1	7267.9	6953.6	6849.6	6710.3	6610.3	6649.9	6758.0	6406.4
30°	8187.5	8125.1	7923.3	7617.4	7215.8	7101.3	6945.3	6833.0	6937.0	7107.7	6681.1
32.5°	8732.6	8724.3	8428.8	8035.6	7577.8	7478.0	7322.0	7195.0	7363.5	7623.6	7093.0
35°	9327.7	9346.4	8992.8	8520.4	8066.8	7962.8	7850.4	7754.7	7979.4	8337.3	7690.2
37.5°	9964.4	10001.8	9583.6	9051.0	8624.4	8580.7	8514.1	8472.6	8820.0	9315.2	8524.6
40°	10815.4	10777.9	10197.4	9650.2	9309.0	9306.9	9286.1	9336.1	9914.4	10592.8	9596.1
42.5°	11726.7	11616.4	10848.7	10293.1	10060.1	10130.9	10172.4	10376.4	11231.5	12145.0	10902.8
45°	12708.8	12461.2	11524.9	10973.5	10894.4	11044.3	11185.8	11628.9	12781.7	13911.4	12334.3
47.5°	13493.2	13254.0	12224.1	11687.2	11859.9	12086.7	12359.3	13060.4	14516.9	15736.3	13747.1
50°	14111.2	13955.2	12929.4	12519.5	12923.1	13272.7	13718.0	14681.3	16322.9	17513.1	15055.8
52.5°	14710.4	14593.9	13640.9	13372.5	14171.6	14654.3	15259.8	16420.7	18174.8	19260.9	16156.5
55°	15251.4	15168.2	14406.6	14435.8	15640.5	16268.9	17030.4	18401.6	20193.0	20819.3	17088.7
57.5°	15861.1	15755.0	15280.5	15769.5	17527.6	18343.3	19333.7	20627.9	22086.4	22205.1	17798.2
60°	16474.8	16383.3	16250.2	17309.2	19924.6	20781.9	21720.2	22785.6	24006.9	23280.8	17756.6
62.5°	17007.5	17017.9	17253.0	18925.9	22271.7	23264.2	24408.5	25461.3	25744.3	23468.0	16443.6
65°	17910.5	18074.9	18776.1	21214.7	25575.8	26903.2	28307.7	28139.1	26225.0	21718.2	13628.5
67.5°	18984.1	19273.4	20694.5	24264.9	29751.7	31514.0	32057.1	28744.6	24300.3	17654.6	9714.8
70°	18876.0	19273.4	21522.6	26539.1	33193.1	34375.0	32727.1	26014.8	19296.2	11533.3	5160.1
72.5°	16762.0	17330.0	19835.1	25496.7	32109.1	32005.1	28411.7	19394.0	11464.6	4631.6	2016.1
75°	12775.4	13349.7	15505.3	20143.1	25378.1	24504.2	20159.7	10713.5	4350.7	1839.4	1271.3
77.5°	7349.0	7794.3	9458.8	12353.1	16100.3	15203.6	11221.2	4764.8	2118.1	1281.7	992.5
80°	4103.2	4350.7	5361.9	6267.0	7889.9	7232.5	5020.6	2960.8	1581.3	930.1	765.7
82.5°	3243.8	3464.3	4336.2	3953.3	3603.8	3324.9	2883.8	2636.2	1262.9	586.8	457.8
85°	2833.9	3044.0	3670.3	3112.7	2461.4	2257.6	2342.9	2594.6	982.0	353.7	391.2
87.5°	2625.8	2906.7	3270.9	2399.0	1916.3	1697.8	2161.8	2844.3	316.3	220.5	158.1
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°	6212.9	6212.9	6212.9	6212.9	6212.9	6212.9	6212.9	6212.9	6212.9	6212.9	6212.9
2.5°	6138.0	6104.8	6050.7	6002.8	5927.9	5888.3	5844.6	5813.4	5788.5	5767.7	5800.9
5°	5948.7	5886.3	5771.8	5649.0	5503.4	5389.0	5293.3	5203.8	5141.4	5099.7	5128.9
7.5°	5769.7	5667.8	5488.8	5266.3	5016.6	4804.3	4629.6	4475.5	4369.4	4300.8	4327.8
10°	5667.8	5540.8	5264.1	4914.6	4546.3	4215.5	3940.8	3703.6	3539.2	3445.6	3460.1
12.5°	5642.8	5478.4	5095.6	4614.9	4111.4	3651.6	3264.5	2935.9	2704.9	2584.2	2588.4
15°	5661.5	5451.4	4937.5	4327.8	3691.1	3110.6	2627.9	2228.4	1960.0	1822.7	1820.6
17.5°	5692.7	5430.5	4771.0	4017.8	3264.5	2590.4	2051.5	1660.4	1423.2	1313.0	1304.6
20°	5726.1	5397.3	4583.7	3682.8	2821.4	2107.7	1606.2	1300.5	1150.6	1090.3	1086.1
22.5°	5773.9	5368.1	4390.2	3329.1	2386.5	1716.6	1321.2	1115.2	1036.1	1004.9	1000.9
25°	5850.9	5353.6	4184.3	2960.8	1995.4	1435.7	1150.6	1023.7	977.9	957.1	955.0
27.5°	5979.9	5374.4	3990.7	2602.9	1677.0	1246.4	1054.9	977.9	944.6	925.9	923.8
30°	6146.3	5438.9	3786.9	2263.8	1429.5	1117.4	996.7	946.7	919.6	900.9	900.9
32.5°	6423.1	5547.2	3572.6	1970.4	1252.6	1027.9	953.0	919.6	896.8	882.2	880.1
35°	6830.9	5751.0	3372.8	1726.9	1125.7	963.3	915.5	890.6	873.9	865.5	865.5
37.5°	7423.9	6073.6	3195.9	1552.2	1048.6	919.6	880.1	861.4	851.0	851.0	851.0
40°	8220.7	6518.8	3052.4	1435.7	1004.9	888.4	853.0	838.5	832.3	834.3	834.3
42.5°	9204.9	7097.2	2956.6	1354.5	984.2	869.7	834.3	821.8	815.6	813.6	815.6
45°	10326.5	7754.7	2946.2	1294.1	963.3	857.2	821.8	809.4	796.9	788.6	788.6
47.5°	11416.7	8422.6	3031.5	1273.4	940.5	842.7	811.5	799.0	780.3	761.5	761.5
50°	12380.1	8990.6	3146.0	1281.7	932.1	821.8	794.8	788.6	759.4	738.7	736.5
52.5°	13145.7	9427.6	3239.6	1306.7	940.5	807.3	774.0	776.1	744.9	722.0	720.0
55°	13759.6	9714.8	3214.6	1331.7	959.2	799.0	755.2	759.4	734.5	711.6	711.6
57.5°	14027.9	9608.6	2937.9	1310.8	973.7	801.1	740.7	757.4	736.5	715.8	715.8
60°	13451.6	8666.0	2419.8	1219.3	955.0	794.8	734.5	765.7	763.6	742.8	740.7
62.5°	11708.0	6978.6	1876.8	1084.0	890.6	763.6	717.8	763.6	786.5	780.3	778.2
65°	9024.0	4970.7	1433.6	938.4	803.1	711.6	674.1	715.8	747.0	755.2	753.2
67.5°	5857.1	3046.1	1104.9	801.1	705.3	651.2	618.0	636.7	642.9	642.9	638.7
70°	2879.7	1639.6	880.1	674.1	605.5	586.8	568.0	557.6	547.2	538.9	538.9
72.5°	1421.1	1071.5	724.0	570.1	522.2	513.9	509.7	497.3	489.0	478.5	474.4
75°	1050.8	871.8	615.9	480.7	449.4	441.1	449.4	439.1	436.9	428.6	424.4
77.5°	863.5	742.8	530.6	411.9	384.9	370.4	382.9	384.9	387.0	374.5	370.4
80°	701.2	628.4	443.1	341.3	316.3	305.9	314.1	330.8	335.0	316.3	307.9
82.5°	505.6	513.9	357.8	266.4	245.5	237.2	253.8	274.7	278.9	251.7	245.5
85°	424.4	428.6	274.7	189.3	168.6	156.1	183.1	203.9	218.5	191.4	185.2
87.5°	176.9	251.7	158.1	106.1	93.6	81.1	97.8	108.2	131.0	120.7	118.6
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)