

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: P383700

Luminaire Tested: **GLEON-SA9D-735-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383700
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA9D-735-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52444.3 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

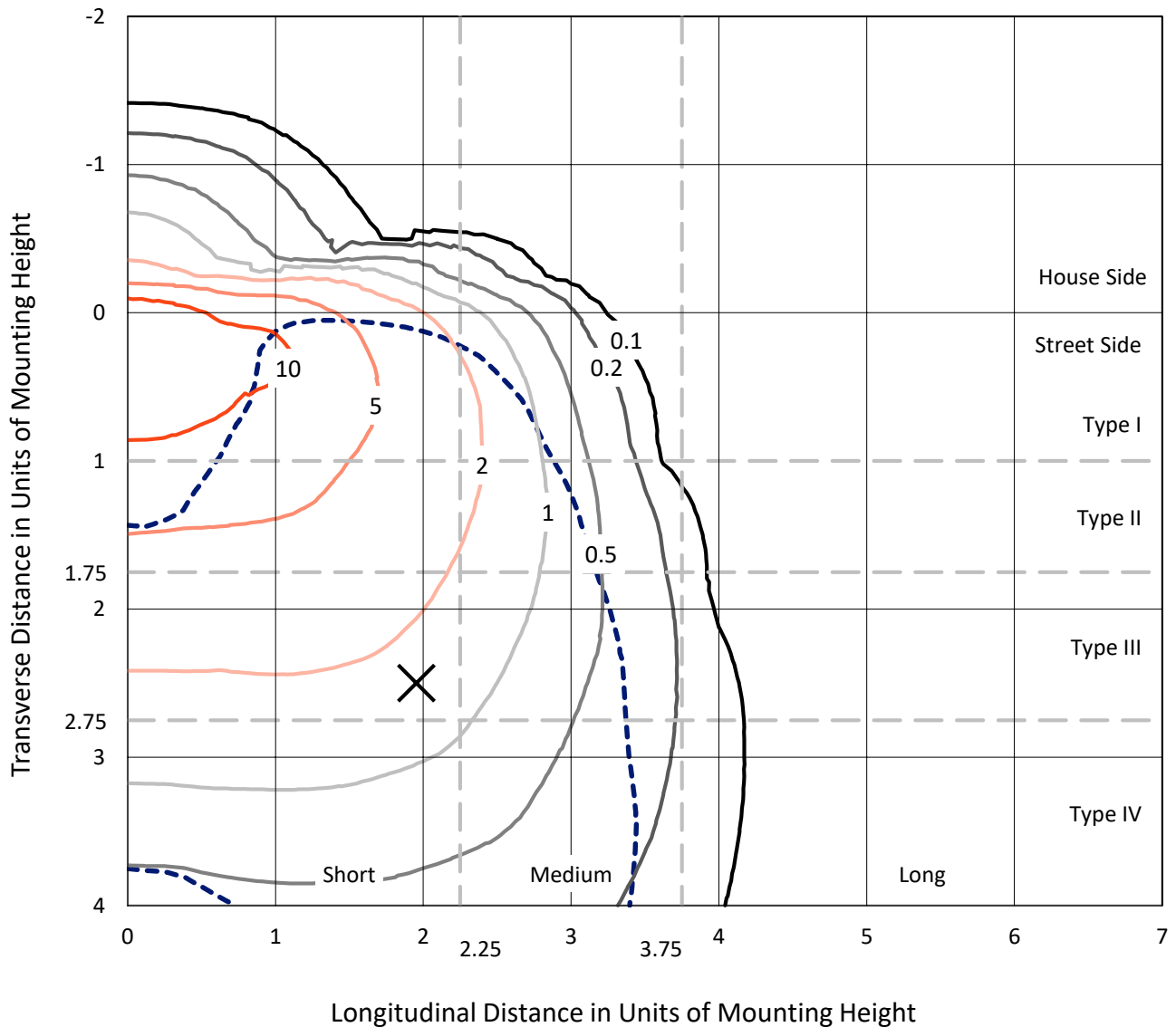
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

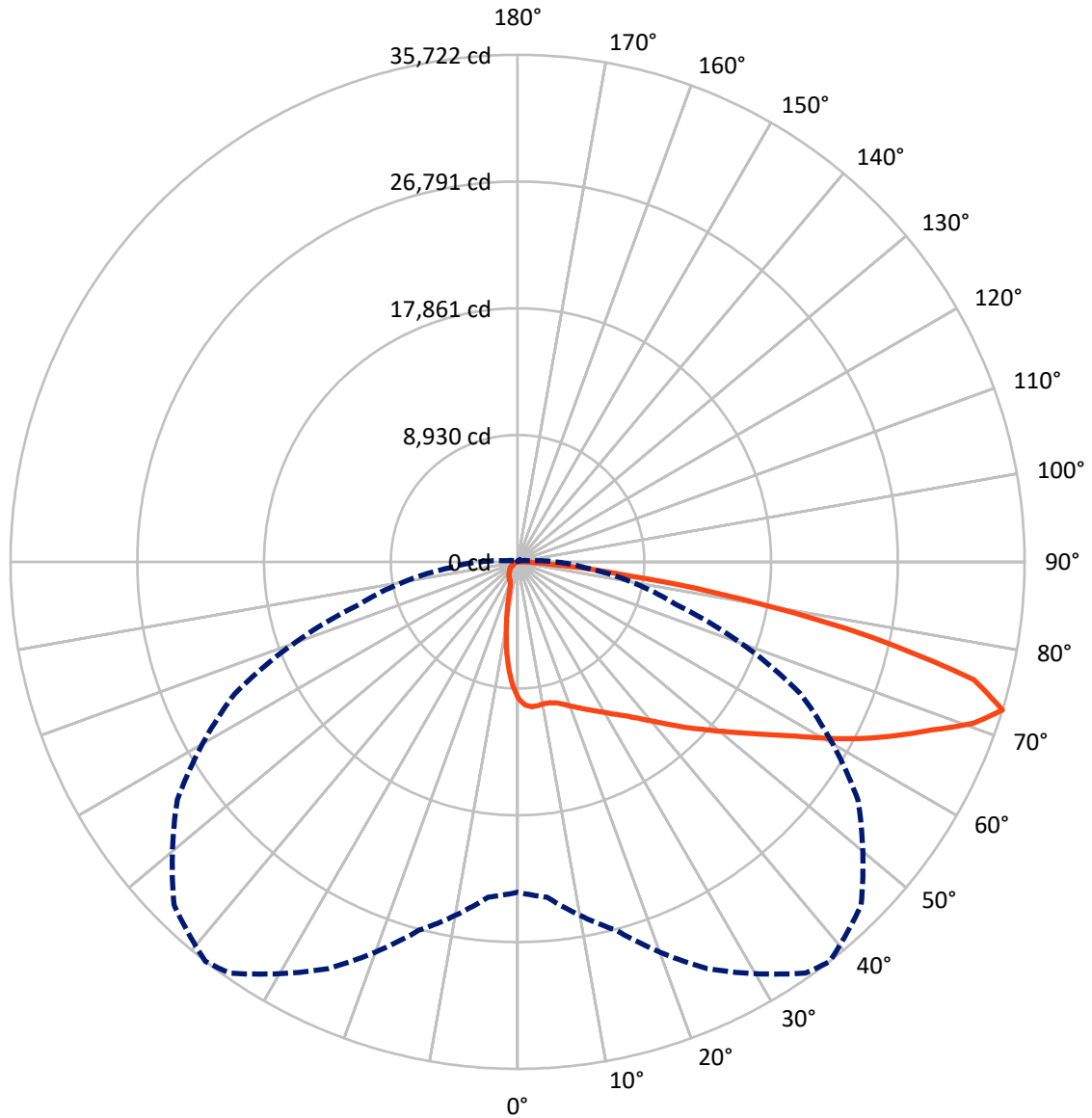
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4413.4	0.0	4413.4
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	48030.9	0.0	48030.9
	% Fixture	91.6	0.0	91.6
Total	Lumens	52444.3	0.0	52444.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	821.9	1.6
10°-20°	2009.7	3.8
20°-30°	3196.4	6.1
30°-40°	4805.4	9.2
40°-50°	7331.0	14.0
50°-60°	10361.1	19.8
60°-70°	12996.3	24.8
70°-80°	9717.6	18.5
80°-90°	1205.0	2.3
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°	52444.3	100.0
0°-180°	52444.3	100.0

Coefficient of Utilization

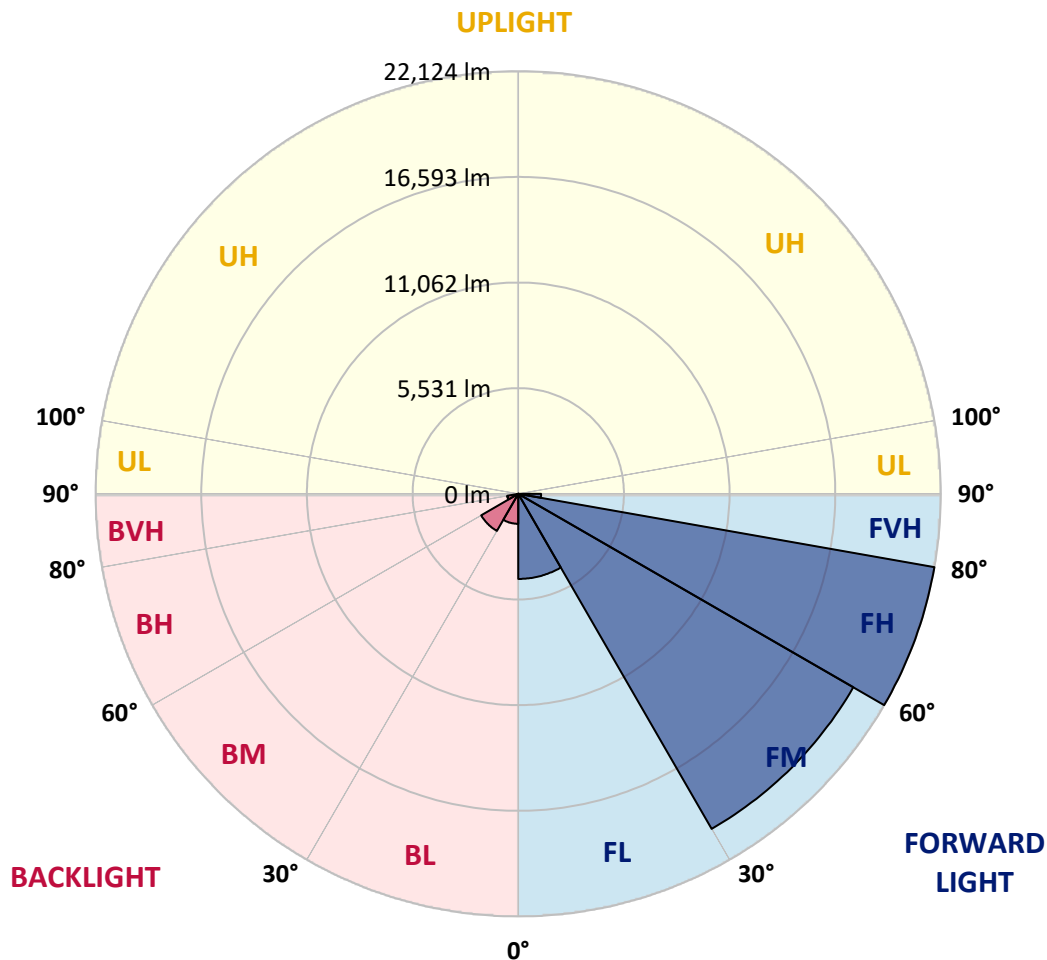


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4456.5	8.5			
FM (30°-60°)	20256.3	38.6			
FH (60°-80°)	22124.4	42.2			G5
FVH (80°-90°)	1193.7	2.3			G5
BL (0°-30°)	1571.4	3.0	B3/2500		
BM (30°-60°)	2241.2	4.3	B2/2500		
BH (60°-80°)	589.5	1.1	B2/1000		G2/1000
BVH (80°-90°)	11.2	0.0			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	9644.3	9644.3	9644.3	9644.3	9644.3	9644.3	9644.3	9644.3	9644.3	9644.3	9644.3
2.5°	10236.8	10238.9	10215.0	10175.8	10125.6	10099.6	10056.0	9986.3	9912.2	9779.4	9635.6
5°	10445.8	10445.8	10415.4	10363.1	10282.5	10258.6	10175.8	10064.7	9912.2	9696.6	9454.8
7.5°	10424.0	10428.4	10387.0	10332.5	10252.0	10230.3	10130.0	10005.8	9816.4	9555.1	9245.7
10°	10310.8	10321.7	10289.0	10262.9	10188.8	10164.9	10071.2	9947.1	9757.6	9478.8	9123.8
12.5°	10195.4	10206.2	10217.1	10241.2	10195.4	10186.7	10112.6	10008.1	9827.3	9537.7	9136.8
15°	10121.4	10143.1	10221.5	10315.1	10326.0	10317.4	10269.4	10171.4	9988.4	9687.9	9230.5
17.5°	10121.4	10156.2	10319.5	10498.1	10561.2	10567.8	10526.4	10389.2	10171.4	9849.1	9317.6
20°	10206.2	10254.2	10509.0	10761.7	10866.2	10866.2	10785.6	10593.9	10339.2	9994.9	9376.4
22.5°	10424.0	10487.3	10807.4	11099.3	11210.3	11186.4	11077.5	10798.7	10513.4	10160.5	9450.5
25°	10853.2	10901.1	11234.3	11528.4	11595.8	11541.4	11404.2	11046.9	10735.5	10384.9	9585.5
27.5°	11406.3	11412.9	11757.1	12005.3	11964.0	11926.9	11754.8	11358.5	11055.7	10705.1	9818.6
30°	12014.0	12014.0	12316.7	12506.3	12379.9	12349.4	12177.4	11735.3	11465.2	11140.7	10149.7
32.5°	12602.1	12628.2	12874.4	12994.2	12852.6	12822.1	12654.3	12212.2	12009.7	11804.9	10665.8
35°	13170.6	13190.2	13423.2	13488.5	13353.5	13362.2	13242.4	12867.8	12791.5	12765.5	11443.4
37.5°	13721.6	13726.0	13963.3	14004.8	13937.3	14011.3	14022.2	13691.1	13832.6	14043.9	12538.9
40°	14224.7	14229.1	14464.3	14571.1	14686.5	14782.3	14867.2	14690.8	15159.1	15649.2	13843.5
42.5°	14627.6	14673.4	14971.8	15174.4	15479.2	15662.2	15893.1	15884.4	16738.1	17474.3	15420.5
45°	14982.6	15061.1	15477.1	15832.1	16354.8	16646.7	17008.3	17291.4	18515.4	19506.4	17017.0
47.5°	15450.9	15525.0	15999.8	16581.4	17278.3	17661.7	18260.7	18872.7	20469.2	21501.5	18576.5
50°	16110.9	16078.2	16546.5	17380.7	18275.8	18779.0	19632.7	20549.8	22407.6	23239.6	19493.4
52.5°	16814.4	16801.3	17147.6	18249.8	19452.0	20040.1	21168.3	22283.5	24261.1	24437.6	19913.8
55°	17685.6	17592.0	17883.9	19240.7	20848.1	21479.7	22808.4	23999.7	25737.8	25112.8	20125.1
57.5°	18598.3	18443.6	18722.3	20345.0	22422.8	23169.9	24624.8	25672.4	26720.1	25574.4	20122.8
60°	19541.4	19358.4	19689.4	21725.8	24378.7	25243.4	26593.8	26802.9	27637.1	25807.5	19974.7
62.5°	20329.7	20220.8	20713.1	23202.6	26563.3	27412.7	28081.4	27830.9	28410.2	25988.3	19628.5
65°	21163.9	21170.4	21965.4	24925.4	28885.1	29457.9	29514.5	29163.9	29057.1	25951.2	18456.7
67.5°	22292.1	22396.7	23723.2	27264.6	31143.7	31585.8	31581.5	30607.9	29529.8	24478.9	15858.3
70°	23485.7	23731.8	25748.7	29941.4	33609.2	34057.9	33827.0	31527.0	27804.7	19794.0	11223.4
72.5°	23285.3	23712.3	26874.8	31629.4	35380.0	35721.9	34221.2	29268.4	21976.3	11504.3	4778.6
75°	17964.4	18458.8	24642.2	29956.6	33522.1	33215.0	29403.5	22775.7	12009.7	3210.4	1075.9
77.5°	9489.7	9753.2	16278.6	22821.4	26138.6	25496.1	20713.1	12634.8	3661.3	795.0	483.6
80°	4970.3	5031.3	7093.8	12948.4	16132.7	16137.0	12275.4	5549.6	1509.4	407.3	324.6
82.5°	2661.5	2713.8	3748.4	5983.1	8453.0	7662.4	4700.2	3053.6	877.7	230.8	311.4
85°	640.3	651.2	2125.8	2733.4	3323.7	2374.0	1396.1	2563.5	237.5	135.1	252.6
87.5°	246.1	250.5	788.5	1182.7	847.2	548.9	653.4	956.1	30.5	52.3	39.2
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°	9644.3	9644.3	9644.3	9644.3	9644.3	9644.3	9644.3	9644.3	9644.3	9644.3	9644.3
2.5°	9548.5	9491.9	9352.5	9176.0	9019.2	8906.0	8736.1	8625.0	8551.0	8548.8	8520.5
5°	9306.7	9191.3	8890.7	8533.5	8209.0	7917.1	7573.0	7300.7	7098.2	7065.5	6995.8
7.5°	9047.6	8858.1	8396.3	7838.7	7294.2	6741.1	6098.5	5700.0	5358.0	5194.6	5177.2
10°	8888.5	8622.9	7967.2	7161.4	6307.6	5408.1	4567.4	3985.8	3565.4	3445.6	3356.4
12.5°	8855.9	8505.2	7636.2	6525.4	5305.7	4116.5	3186.5	2567.9	2232.5	2125.8	2097.5
15°	8888.5	8450.7	7357.4	5896.0	4290.7	2920.8	2138.8	1779.4	1653.1	1622.7	1620.4
17.5°	8908.1	8385.4	7041.6	5196.8	3306.2	2086.6	1637.8	1533.3	1513.8	1511.5	1515.9
20°	8906.0	8285.3	6664.8	4417.0	2459.0	1640.1	1481.1	1459.3	1454.9	1457.1	1454.9
22.5°	8890.7	8167.6	6251.0	3613.4	1857.9	1465.8	1413.5	1400.5	1398.3	1398.3	1398.3
25°	8919.0	8074.0	5795.7	2844.5	1531.2	1385.2	1352.5	1341.7	1339.5	1339.5	1335.1
27.5°	9021.4	8021.6	5297.0	2189.0	1383.1	1313.4	1287.2	1285.1	1278.5	1276.3	1280.7
30°	9186.9	8021.6	4750.3	1703.2	1293.7	1239.3	1219.7	1215.3	1213.2	1211.0	1213.2
32.5°	9478.8	8082.7	4153.5	1415.8	1208.8	1156.5	1143.5	1150.0	1143.5	1143.5	1143.5
35°	10005.8	8265.6	3528.4	1235.0	1119.5	1075.9	1062.9	1071.6	1067.3	1067.3	1065.0
37.5°	10774.7	8605.5	2899.0	1126.1	1041.1	995.4	977.9	991.0	986.7	986.7	984.5
40°	11711.3	9099.8	2300.0	1043.2	964.9	916.9	901.7	908.3	897.4	897.4	901.7
42.5°	12867.8	9727.1	1777.3	962.7	888.6	842.9	834.2	827.7	808.0	797.1	799.4
45°	14152.8	10380.5	1385.2	884.3	816.8	779.7	766.7	749.2	716.5	694.7	697.0
47.5°	15300.7	10883.6	1126.1	808.0	751.4	723.1	703.5	670.8	622.9	596.7	599.0
50°	15904.0	10959.8	958.4	731.8	690.5	662.1	633.8	583.7	527.1	498.8	496.6
52.5°	16058.7	10602.7	834.2	662.1	629.4	596.7	559.8	492.2	429.1	398.6	394.2
55°	16115.3	10058.2	723.1	596.7	564.1	527.1	479.2	402.9	344.1	313.7	311.4
57.5°	15928.0	9245.7	636.0	538.0	498.8	453.0	394.2	322.3	265.7	241.7	241.7
60°	15511.9	8145.8	568.4	474.8	431.2	379.0	318.0	250.5	198.2	178.6	178.6
62.5°	14682.1	6721.4	505.3	409.5	368.1	313.7	257.0	189.5	139.4	128.5	130.7
65°	13116.1	5098.7	442.1	350.6	313.7	259.2	200.4	135.1	93.6	93.6	98.0
67.5°	10696.3	3541.5	376.8	298.4	270.1	211.3	152.5	93.6	65.3	74.1	82.7
70°	7080.8	1986.3	322.3	246.1	230.8	167.7	113.3	63.2	52.3	69.7	85.0
72.5°	2672.4	773.2	270.1	198.2	200.4	128.5	80.6	47.9	47.9	76.2	100.2
75°	744.9	379.0	193.9	146.0	156.8	93.6	58.8	41.4	45.7	87.1	117.7
77.5°	437.8	278.8	126.3	85.0	106.8	65.3	39.2	32.7	39.2	74.1	113.3
80°	352.9	148.1	74.1	43.6	58.8	37.0	26.2	19.6	10.9	28.3	58.8
82.5°	352.9	89.3	34.8	30.5	30.5	19.6	13.0	8.8	2.1	0.0	15.3
85°	237.5	37.0	21.8	19.6	15.3	6.5	4.4	2.1	0.0	0.0	0.0
87.5°	39.2	15.3	8.8	4.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0
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)