

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: P323334

Luminaire Tested: **GLEON-SA0C-827-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323334
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA0C-827-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42628 lumens
Efficiency: N/A
Efficacy: 76.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

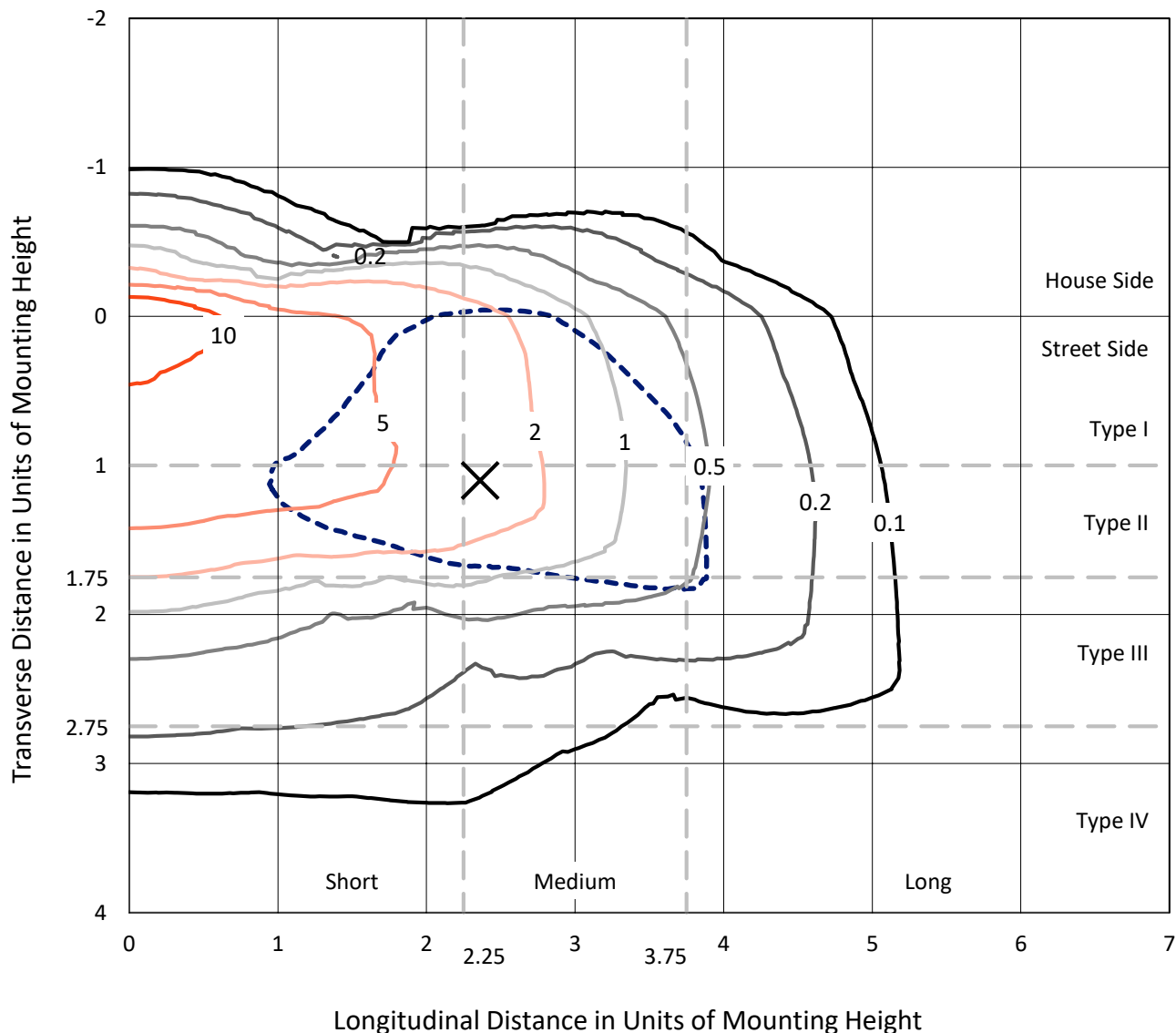
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

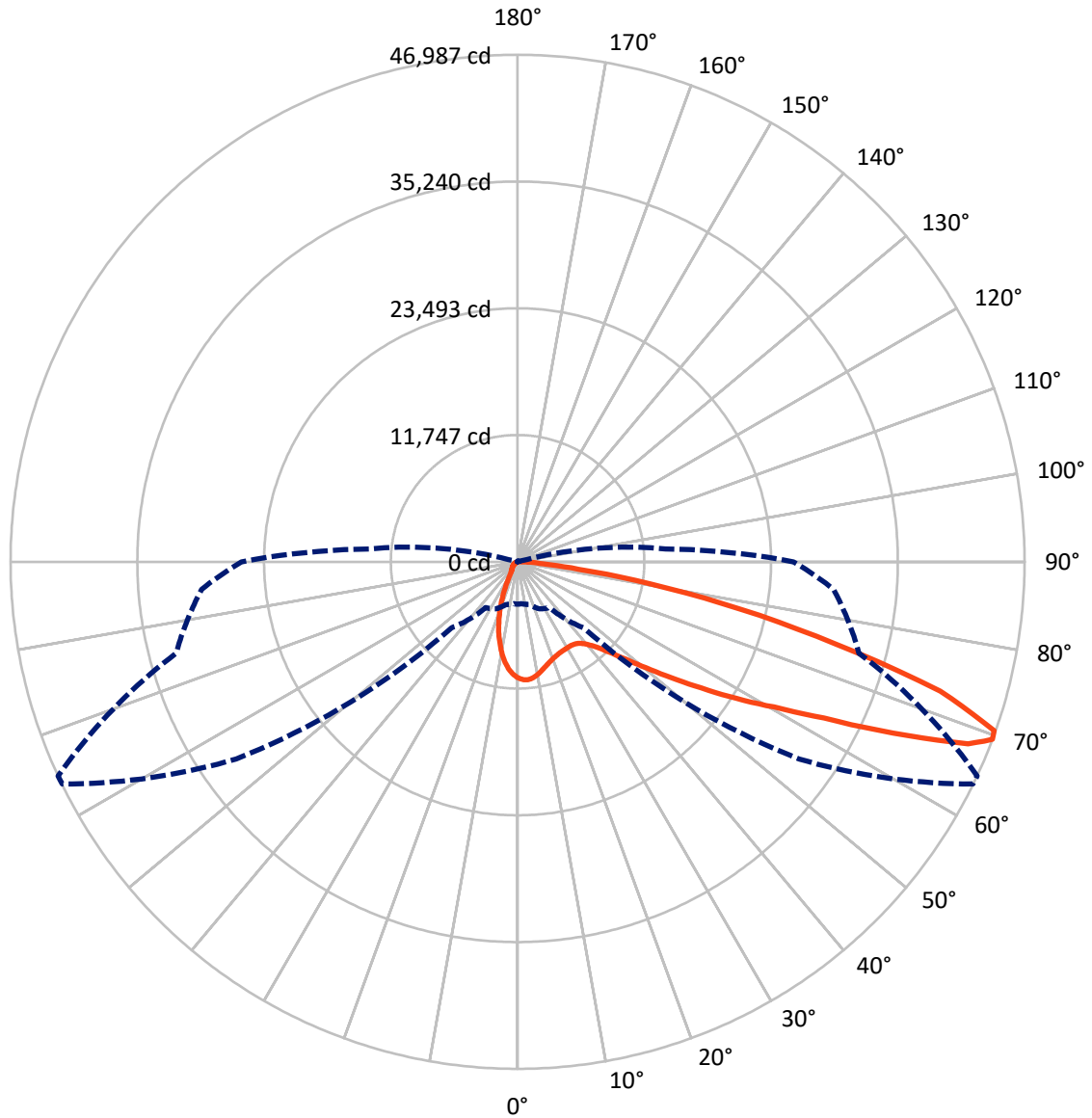
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5024.8	0.0	5024.8
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	37603.2	0.0	37603.2
	% Fixture	88.2	0.0	88.2
Total	Lumens	42628.0	0.0	42628.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	900.8	2.1
10°-20°	1971.8	4.6
20°-30°	2731.1	6.4
30°-40°	3808.0	8.9
40°-50°	5918.9	13.9
50°-60°	9502.1	22.3
60°-70°	10748.4	25.2
70°-80°	6312.6	14.8
80°-90°	734.3	1.7
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°	42628.0	100.0
0°-180°	42628.0	100.0

Coefficient of Utilization

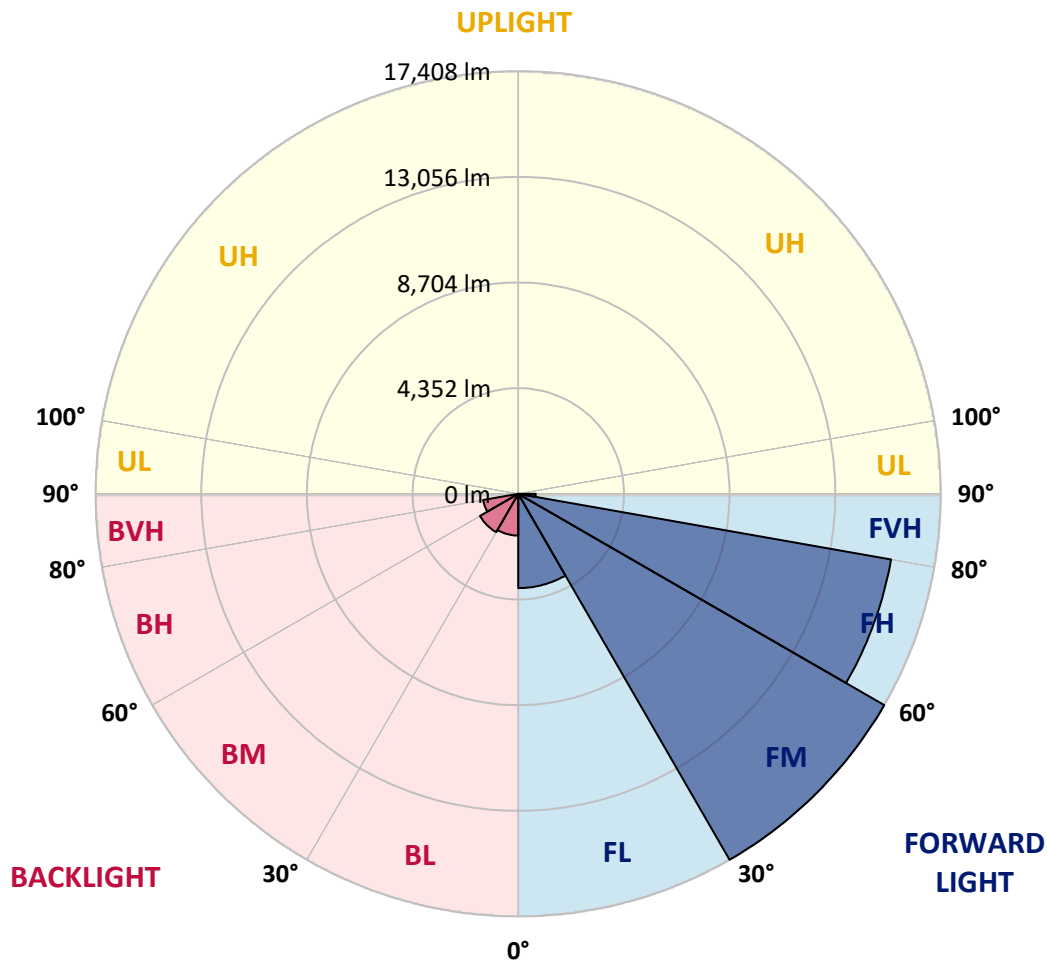


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3884.4	9.1			
FM (30°-60°)	17408.0	40.8			
FH (60°-80°)	15592.9	36.6			G5
FVH (80°-90°)	717.8	1.7			G4/750
BL (0°-30°)	1719.3	4.0	B3/2500		
BM (30°-60°)	1820.9	4.3	B2/2500		
BH (60°-80°)	1468.2	3.4	B3/2500		G3/2500
BVH (80°-90°)	16.5	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	10772.2	10772.2	10772.2	10772.2	10772.2	10772.2	10772.2	10772.2	10772.2	10772.2	10772.2
2.5°	10867.8	10840.7	10862.4	10909.3	10932.7	10932.7	10950.7	10929.1	10936.3	10884.0	10808.2
5°	10187.7	10146.3	10205.8	10337.5	10499.8	10638.7	10844.3	10952.5	10963.4	10965.2	10876.8
7.5°	9455.4	9417.5	9505.9	9661.0	9870.3	10128.2	10487.2	10801.0	10819.1	10988.6	10923.7
10°	8860.2	8833.1	8935.9	9101.9	9347.2	9635.8	10075.9	10512.4	10564.7	10939.9	10916.5
12.5°	8387.6	8365.9	8463.3	8654.5	8905.3	9224.5	9684.5	10191.4	10261.7	10829.9	10880.4
15°	8043.1	8039.4	8120.6	8304.6	8582.4	8880.0	9350.8	9893.7	9974.9	10710.8	10875.0
17.5°	7862.7	7868.1	7927.6	8084.5	8322.6	8618.5	9069.4	9643.0	9731.4	10604.4	10902.0
20°	7844.6	7850.0	7882.5	7970.9	8163.9	8425.5	8840.3	9432.0	9524.0	10525.1	10945.3
22.5°	8003.4	7999.8	8008.8	7999.8	8108.0	8306.4	8688.8	9269.6	9376.0	10472.7	10979.6
25°	8308.2	8302.8	8299.2	8232.4	8160.3	8266.7	8625.7	9177.6	9278.6	10434.9	10999.4
27.5°	8732.1	8728.5	8723.1	8613.0	8396.6	8329.9	8632.9	9143.4	9228.1	10404.2	10995.8
30°	9289.5	9314.7	9307.5	9154.2	8816.9	8522.9	8708.6	9125.3	9199.3	10344.7	10958.0
32.5°	9944.2	9994.7	10034.4	9870.3	9448.2	8905.3	8883.6	9145.2	9199.3	10299.6	10889.4
35°	10624.3	10689.2	10835.3	10777.6	10222.0	9480.7	9184.8	9264.2	9309.3	10324.8	10856.9
37.5°	11293.5	11371.0	11688.5	11856.2	11235.7	10241.9	9653.8	9558.2	9581.7	10478.2	10893.0
40°	12070.9	12188.1	12669.7	12940.3	12446.1	11261.0	10355.5	10063.3	10072.3	10815.5	11060.8
42.5°	13091.8	13212.7	13734.0	14157.9	13809.7	12548.9	11307.9	10835.3	10826.3	11446.8	11455.8
45°	14336.4	14462.7	15002.0	15472.8	15315.9	14074.9	12527.2	11962.7	11951.8	12442.5	12204.4
47.5°	15747.0	15871.5	16353.1	16838.3	17007.8	15857.0	14080.3	13501.3	13476.0	13826.0	13360.6
50°	16957.3	17038.5	17482.2	18135.2	18900.0	18046.8	16012.1	15454.8	15427.7	15664.0	15058.0
52.5°	17397.5	17444.4	17895.3	18809.8	20718.2	21012.2	18550.1	17832.2	17812.3	17915.1	17318.1
55°	16506.4	16591.2	17144.9	18501.4	21703.1	24363.6	21753.6	20775.9	20626.2	20404.4	19681.0
57.5°	14078.5	14213.8	14809.0	16612.8	21243.1	27022.4	26461.4	24105.7	23885.6	22529.2	21602.1
60°	10548.5	10714.4	11208.7	13155.0	18788.2	27969.4	31605.8	27816.1	27320.0	24221.1	23368.0
62.5°	7238.6	7321.5	7657.0	8925.1	13836.8	26418.2	35909.6	32785.5	31880.0	26061.0	25278.2
65°	5528.6	5557.4	5694.5	6131.0	8239.7	21459.6	37621.4	39342.2	38247.3	28261.6	27260.5
67.5°	4455.3	4431.9	4621.3	5245.4	5517.8	13091.8	35624.6	45545.4	45033.2	31203.6	29255.5
69°	3928.6	3896.2	4089.2	4814.3	5182.3	8654.5	31847.5	46954.2	46986.6	32756.6	29392.6
70°	3535.4	3557.1	3748.3	4558.2	5068.6	6793.0	28240.0	46595.2	46851.4	33337.5	28570.1
72.5°	2361.1	2418.9	2803.1	3784.3	4873.8	5140.8	17051.1	39984.4	40969.2	32029.7	24511.6
75°	1331.2	1374.5	1830.8	2853.6	4592.4	4895.5	9006.3	29457.5	30409.9	26784.3	18901.8
77.5°	653.0	676.4	1035.4	1841.7	3840.2	4664.6	5108.3	20009.3	21097.0	17482.2	10691.0
80°	276.0	288.6	517.7	1136.4	2745.4	4451.7	3793.3	12314.4	12449.7	6849.0	2848.2
82.5°	106.4	110.0	218.3	708.9	1744.3	3470.5	3172.8	5838.8	5698.1	1289.7	649.4
85°	12.6	14.4	79.4	425.7	970.4	1785.7	2577.6	2516.3	2328.7	256.1	333.7
87.5°	0.0	0.0	5.4	129.9	288.6	837.0	1340.2	1044.4	941.6	83.0	173.2
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°	10772.2	10772.2	10772.2	10772.2	10772.2	10772.2	10772.2	10772.2	10772.2	10772.2	10772.2
2.5°	10745.1	10727.1	10629.7	10489.0	10355.5	10189.5	10030.8	9935.2	9859.5	9809.0	9868.5
5°	10774.0	10694.6	10398.8	10020.0	9648.4	9229.9	8840.3	8510.2	8380.4	8236.1	8301.0
7.5°	10765.0	10615.2	10083.1	9408.5	8726.7	8021.4	7354.0	6839.9	6573.0	6311.4	6378.2
10°	10719.9	10467.3	9661.0	8661.7	7640.8	6627.1	5680.1	4960.4	4558.2	4193.8	4246.1
12.5°	10620.7	10268.9	9163.2	7806.8	6441.3	5104.7	3995.4	3073.6	2579.4	2361.1	2388.2
15°	10561.1	10075.9	8636.5	6940.9	5160.6	3555.2	2442.3	1816.4	1590.9	1518.8	1527.8
17.5°	10532.3	9890.1	8091.8	5950.7	3851.1	2263.7	1578.3	1392.5	1343.8	1331.2	1334.8
20°	10503.4	9702.5	7530.8	4971.2	2653.4	1522.4	1296.9	1242.8	1224.8	1208.5	1212.1
22.5°	10454.7	9522.2	6928.3	3979.1	1789.3	1235.6	1168.8	1116.5	1078.7	1058.8	1062.4
25°	10395.2	9332.8	6313.2	2963.6	1305.9	1102.1	1039.0	965.0	919.9	883.9	885.7
27.5°	10299.6	9100.1	5678.3	2157.3	1096.7	986.7	901.9	820.7	745.0	703.5	703.5
30°	10166.1	8836.7	4973.0	1544.0	983.1	873.0	770.2	669.2	588.0	550.2	546.5
32.5°	10018.2	8562.5	4260.5	1170.7	892.9	766.6	649.4	542.9	470.8	440.1	438.3
35°	9891.9	8266.7	3549.8	981.3	802.7	663.8	535.7	445.5	387.8	362.6	360.8
37.5°	9810.8	7970.9	2857.2	876.6	721.5	568.2	449.1	368.0	326.5	306.6	304.8
40°	9798.1	7750.8	2224.1	797.3	645.8	483.4	375.2	312.1	274.2	252.5	250.7
42.5°	9962.3	7624.6	1706.4	730.5	568.2	409.5	319.3	267.0	227.3	205.6	203.8
45°	10393.4	7664.3	1313.2	671.0	490.6	346.3	270.6	221.9	185.8	169.6	165.9
47.5°	11179.8	7938.4	1044.4	611.5	416.7	294.0	230.9	184.0	153.3	137.1	135.3
50°	12579.6	8582.4	873.0	546.5	348.1	250.7	191.2	149.7	124.5	110.0	108.2
52.5°	14437.4	9729.6	779.2	483.4	288.6	212.8	156.9	119.0	97.4	86.6	84.8
55°	16486.5	11118.5	717.9	414.9	236.3	176.8	124.5	93.8	75.8	66.7	63.1
57.5°	18486.9	12321.6	660.2	348.1	196.6	144.3	99.2	74.0	59.5	50.5	48.7
60°	20325.0	13427.3	593.4	279.6	160.5	113.6	77.6	57.7	46.9	37.9	37.9
62.5°	22292.9	14282.3	501.5	218.3	131.7	86.6	63.1	52.3	37.9	32.5	30.7
65°	24378.1	14917.3	393.2	169.6	102.8	64.9	52.3	54.1	30.7	23.4	21.6
67.5°	25918.5	14791.0	290.4	133.5	79.4	50.5	50.5	57.7	27.1	18.0	16.2
69°	25579.4	13764.6	243.5	115.4	68.5	43.3	46.9	57.7	25.3	16.2	14.4
70°	24596.3	12628.3	214.6	102.8	61.3	39.7	45.1	55.9	23.4	16.2	14.4
72.5°	20483.7	9511.3	167.8	77.6	48.7	32.5	37.9	48.7	23.4	16.2	12.6
75°	15407.9	6087.8	128.1	55.9	36.1	25.3	28.9	36.1	23.4	14.4	12.6
77.5°	8384.0	2195.2	92.0	37.9	25.3	19.8	19.8	27.1	21.6	10.8	7.2
80°	2155.5	552.0	57.7	25.3	19.8	14.4	12.6	18.0	12.6	1.8	0.0
82.5°	532.1	124.5	30.7	18.0	14.4	5.4	5.4	9.0	5.4	0.0	0.0
85°	292.2	61.3	19.8	12.6	7.2	0.0	0.0	1.8	0.0	0.0	0.0
87.5°	149.7	18.0	5.4	3.6	1.8	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)