

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: P383360

Luminaire Tested: **GLEON-SA6D-735-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383360
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-SA6D-735-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 1200mA 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: 35806.8 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

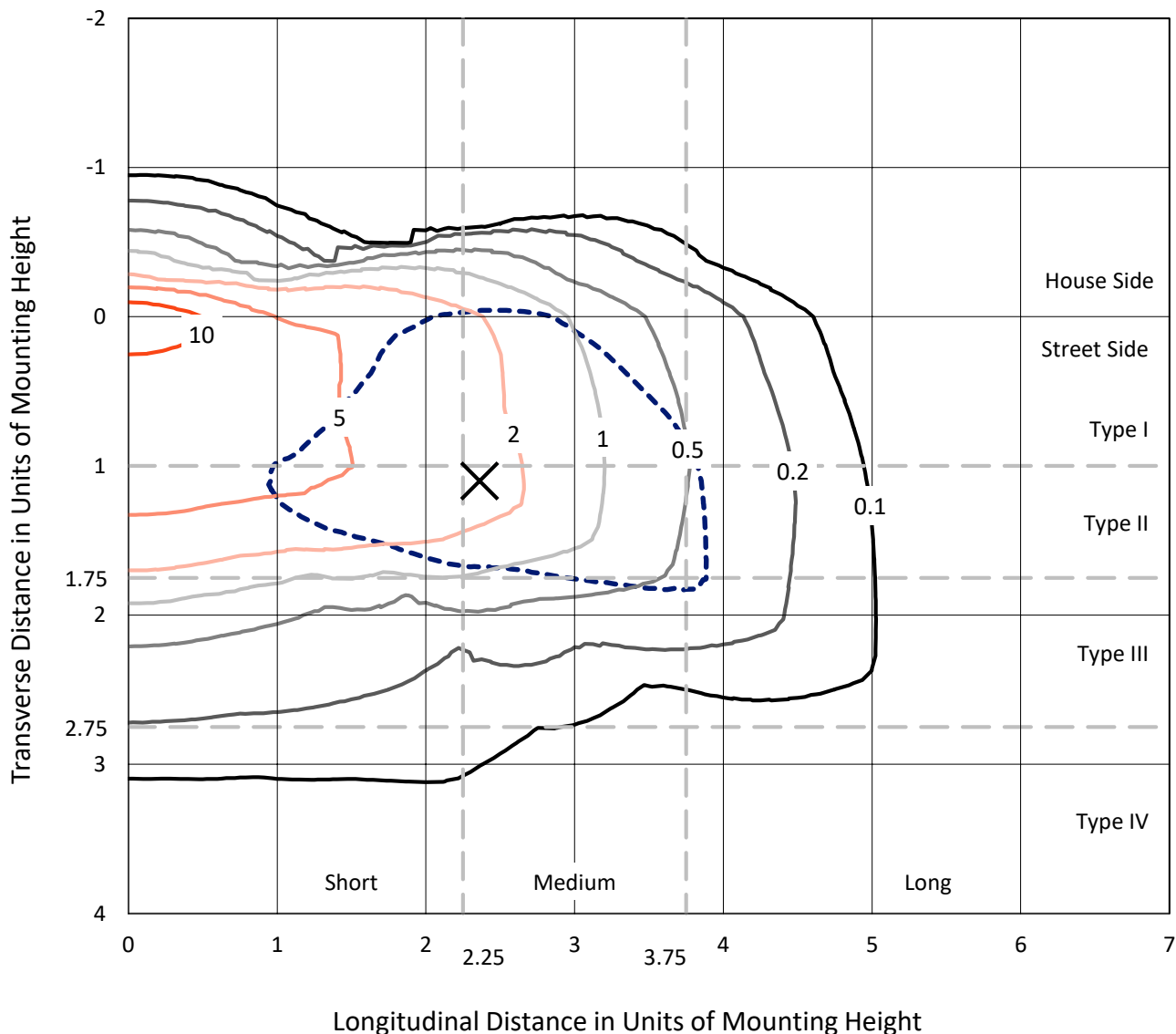
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

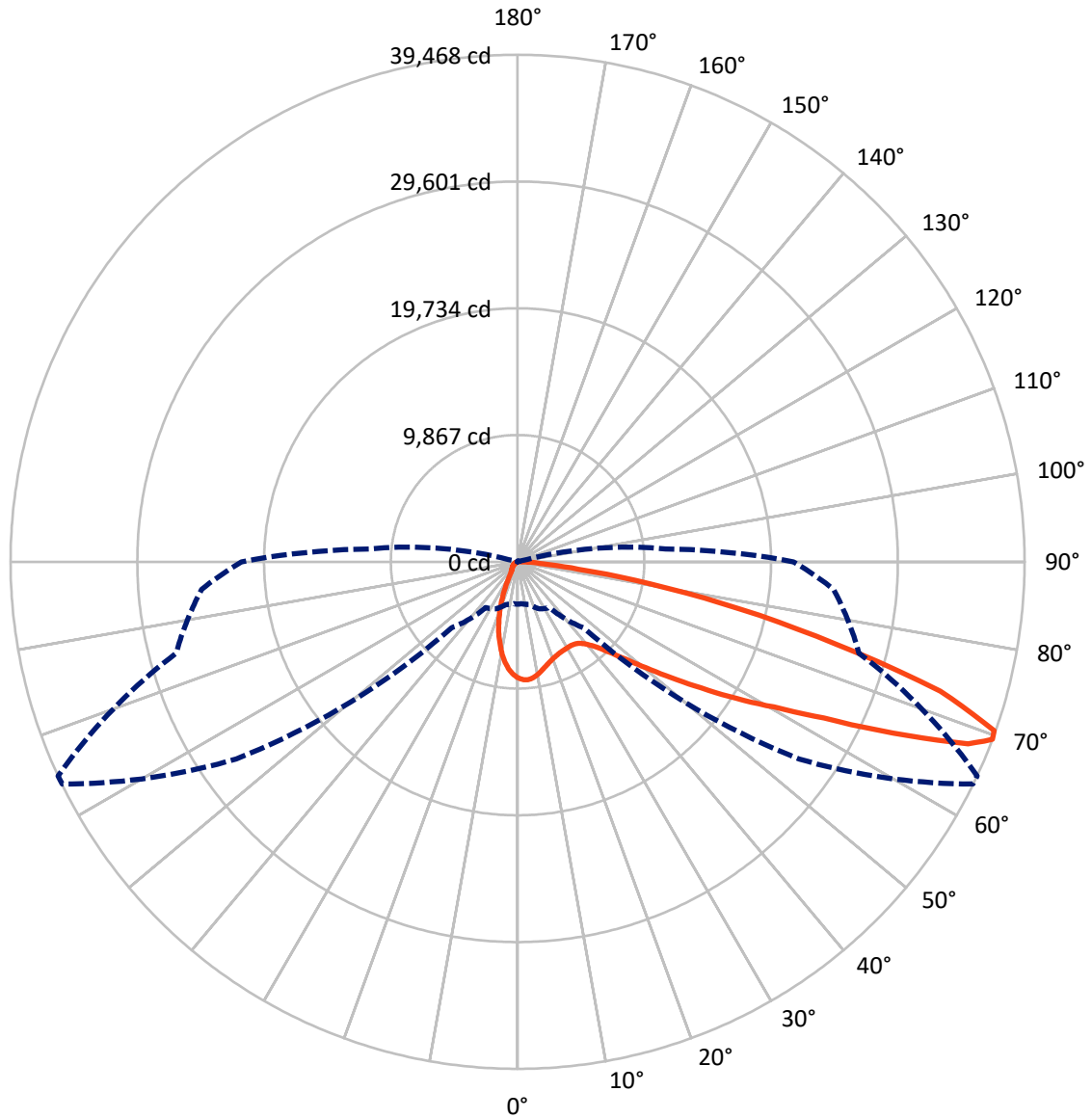
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 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	4220.8	0.0	4220.8
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	31586.0	0.0	31586.0
	% Fixture	88.2	0.0	88.2
Total	Lumens	35806.8	0.0	35806.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	756.6	2.1
10°-20°	1656.3	4.6
20°-30°	2294.1	6.4
30°-40°	3198.6	8.9
40°-50°	4971.7	13.9
50°-60°	7981.6	22.3
60°-70°	9028.5	25.2
70°-80°	5302.5	14.8
80°-90°	616.8	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°	35806.8	100.0
0°-180°	35806.8	100.0

Coefficient of Utilization

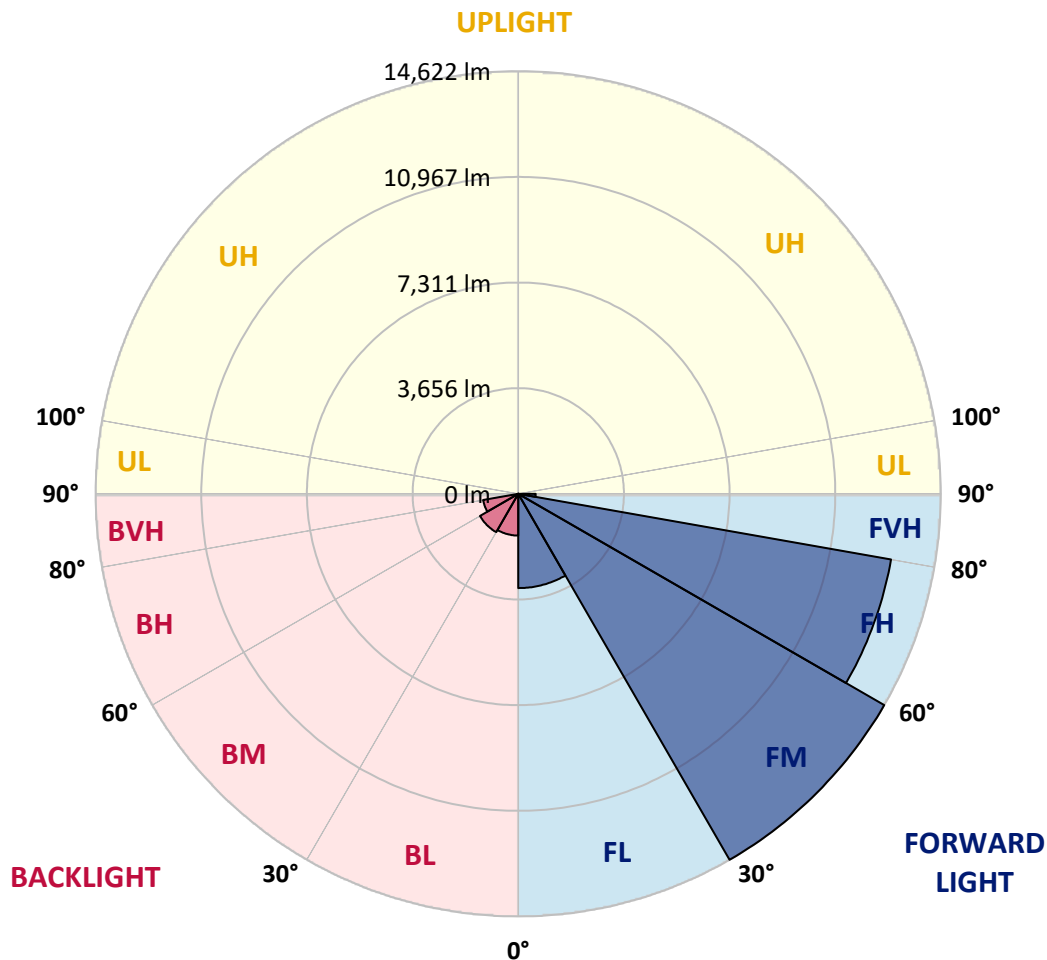


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3262.8	9.1			
FM (30°-60°)	14622.5	40.8			
FH (60°-80°)	13097.8	36.6			G5
FVH (80°-90°)	602.9	1.7			G4/750
BL (0°-30°)	1444.2	4.0	B3/2500		
BM (30°-60°)	1529.5	4.3	B2/2500		
BH (60°-80°)	1233.2	3.4	B3/2500		G3/2500
BVH (80°-90°)	13.9	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°	9048.4	9048.4	9048.4	9048.4	9048.4	9048.4	9048.4	9048.4	9048.4	9048.4	9048.4
2.5°	9128.8	9106.1	9124.2	9163.6	9183.3	9183.3	9198.5	9180.3	9186.4	9142.4	9078.8
5°	8557.6	8522.7	8572.7	8683.3	8819.7	8936.3	9109.0	9200.0	9209.1	9210.6	9136.3
7.5°	7942.4	7910.6	7984.9	8115.1	8290.9	8507.5	8809.1	9072.7	9087.8	9230.2	9175.7
10°	7442.4	7419.7	7506.0	7645.4	7851.5	8093.9	8463.6	8830.2	8874.2	9189.3	9169.7
12.5°	7045.4	7027.2	7109.1	7269.7	7480.2	7748.4	8134.8	8560.5	8619.7	9096.9	9139.3
15°	6756.0	6753.0	6821.2	6975.7	7209.1	7459.1	7854.5	8310.6	8378.7	8996.9	9134.8
17.5°	6604.5	6609.1	6659.1	6790.9	6990.9	7239.3	7618.2	8100.0	8174.2	8907.6	9157.6
20°	6589.4	6593.9	6621.2	6695.4	6857.6	7077.2	7425.7	7922.7	7999.9	8840.9	9193.9
22.5°	6722.7	6719.6	6727.3	6719.6	6810.5	6977.2	7298.5	7786.3	7875.8	8797.0	9222.7
25°	6978.8	6974.2	6971.1	6915.2	6854.5	6943.9	7245.4	7709.0	7793.9	8765.1	9239.4
27.5°	7334.8	7331.7	7327.3	7234.9	7053.0	6996.9	7251.4	7680.2	7751.5	8739.3	9236.3
30°	7803.0	7824.3	7818.1	7689.4	7406.0	7159.0	7315.2	7665.1	7727.3	8689.4	9204.5
32.5°	8353.0	8395.4	8428.7	8290.9	7936.3	7480.2	7462.1	7681.8	7727.3	8651.5	9147.0
35°	8924.2	8978.7	9101.5	9053.0	8586.4	7963.6	7715.1	7781.8	7819.7	8672.7	9119.7
37.5°	9486.3	9551.4	9818.1	9959.1	9437.9	8603.0	8109.0	8028.7	8048.5	8801.4	9149.9
40°	10139.3	10237.8	10642.4	10869.7	10454.5	9459.0	8698.4	8453.0	8460.6	9084.8	9290.9
42.5°	10996.9	11098.5	11536.3	11892.4	11599.9	10540.8	9498.4	9101.5	9093.9	9615.2	9622.7
45°	12042.4	12148.4	12601.5	12997.0	12865.1	11822.6	10522.7	10048.4	10039.4	10451.5	10251.5
47.5°	13227.2	13331.8	13736.3	14143.9	14286.3	13319.6	11827.2	11340.8	11319.6	11613.6	11222.7
50°	14243.9	14312.0	14684.8	15233.2	15875.7	15159.1	13450.0	12981.8	12959.0	13157.6	12648.5
52.5°	14613.6	14653.0	15031.7	15800.0	17403.0	17649.9	15581.7	14978.7	14962.1	15048.4	14547.0
55°	13865.1	13936.3	14401.4	15540.8	18230.2	20465.1	18272.7	17451.4	17325.7	17139.4	16531.7
57.5°	11825.7	11939.4	12439.3	13954.5	17843.9	22698.4	22227.2	20248.4	20063.6	18924.2	18145.3
60°	8860.6	9000.0	9415.2	11049.9	15781.7	23493.8	26548.4	23365.1	22948.4	20345.4	19628.7
62.5°	6080.3	6150.0	6431.8	7496.9	11622.6	22190.9	30163.5	27539.2	26778.6	21890.8	21233.2
65°	4644.0	4668.2	4783.3	5150.0	6921.2	18025.7	31601.4	33046.8	32127.1	23739.3	22898.4
67.5°	3742.4	3722.7	3881.8	4406.0	4634.8	10996.9	29924.1	38257.4	37827.1	26210.5	24574.1
69°	3300.0	3272.7	3434.8	4043.9	4353.0	7269.7	26751.4	39440.8	39468.0	27515.0	24689.3
70°	2969.7	2987.8	3148.4	3828.8	4257.5	5706.0	23721.1	39139.3	39354.3	28002.9	23998.3
72.5°	1983.4	2031.8	2354.6	3178.8	4094.0	4318.2	14322.6	33586.2	34413.5	26904.4	20589.3
75°	1118.1	1154.6	1537.9	2397.0	3857.5	4112.1	7565.1	24743.9	25543.9	22498.4	15877.2
77.5°	548.5	568.2	869.7	1546.9	3225.8	3918.2	4290.9	16807.5	17721.1	14684.8	8980.3
80°	231.9	242.4	434.8	954.6	2306.0	3739.4	3186.4	10343.9	10457.6	5753.1	2392.4
82.5°	89.4	92.4	183.3	595.4	1465.1	2915.2	2665.2	4904.5	4786.4	1083.3	545.4
85°	10.6	12.1	66.7	357.5	815.1	1500.0	2165.1	2113.6	1956.1	215.2	280.3
87.5°	0.0	0.0	4.6	109.1	242.4	703.0	1125.8	877.2	790.9	69.7	145.4
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°	9048.4	9048.4	9048.4	9048.4	9048.4	9048.4	9048.4	9048.4	9048.4	9048.4	9048.4
2.5°	9025.8	9010.6	8928.8	8810.6	8698.4	8559.1	8425.8	8345.5	8281.8	8239.4	8289.4
5°	9050.0	8983.3	8734.8	8416.6	8104.6	7753.0	7425.7	7148.4	7039.3	6918.1	6972.7
7.5°	9042.3	8916.6	8469.6	7903.0	7330.3	6737.9	6177.3	5745.4	5521.2	5301.5	5357.5
10°	9004.5	8792.4	8115.1	7275.8	6418.2	5566.6	4771.2	4166.6	3828.8	3522.7	3566.6
12.5°	8921.2	8625.8	7696.9	6557.5	5410.6	4287.8	3356.1	2581.8	2166.7	1983.4	2006.1
15°	8871.2	8463.6	7254.5	5830.3	4334.9	2986.4	2051.5	1525.8	1336.4	1275.8	1283.3
17.5°	8846.9	8307.5	6796.9	4998.5	3234.8	1901.5	1325.8	1169.7	1128.8	1118.1	1121.2
20°	8822.7	8149.9	6325.8	4175.8	2228.8	1278.8	1089.4	1043.9	1028.8	1015.1	1018.2
22.5°	8781.8	7998.5	5819.7	3342.4	1503.1	1037.8	981.9	937.9	906.0	889.3	892.4
25°	8731.8	7839.3	5303.0	2489.4	1097.0	925.8	872.8	810.6	772.7	742.4	743.9
27.5°	8651.5	7643.9	4769.7	1812.1	921.2	828.8	757.5	689.3	625.7	590.9	590.9
30°	8539.4	7422.7	4177.2	1297.0	825.7	733.3	647.0	562.1	493.9	462.1	459.1
32.5°	8415.1	7192.4	3578.8	983.3	750.0	644.0	545.4	456.1	395.4	369.7	368.1
35°	8309.0	6943.9	2981.8	824.2	674.3	557.5	450.0	374.2	325.8	304.5	303.0
37.5°	8240.8	6695.4	2399.9	736.4	606.1	477.2	377.3	309.1	274.2	257.6	256.1
40°	8230.2	6510.6	1868.2	669.7	542.4	406.1	315.1	262.1	230.3	212.1	210.6
42.5°	8368.2	6404.5	1433.4	613.6	477.2	343.9	268.2	224.2	190.9	172.7	171.2
45°	8730.3	6437.8	1103.0	563.7	412.1	290.9	227.3	186.4	156.0	142.4	139.4
47.5°	9390.8	6668.1	877.2	513.7	350.0	247.0	193.9	154.5	128.8	115.1	113.6
50°	10566.6	7209.1	733.3	459.1	292.4	210.6	160.6	125.8	104.5	92.4	90.9
52.5°	12127.3	8172.7	654.5	406.1	242.4	178.8	131.8	100.0	81.8	72.8	71.2
55°	13848.4	9339.3	603.0	348.5	198.5	148.5	104.5	78.8	63.6	56.1	53.0
57.5°	15528.7	10350.0	554.6	292.4	165.2	121.2	83.4	62.1	50.0	42.4	40.9
60°	17072.7	11278.7	498.5	234.8	134.9	95.5	65.1	48.4	39.4	31.9	31.9
62.5°	18725.7	11996.9	421.2	183.3	110.6	72.8	53.0	44.0	31.9	27.3	25.8
65°	20477.2	12530.2	330.3	142.4	86.4	54.6	44.0	45.5	25.8	19.7	18.2
67.5°	21771.1	12424.2	244.0	112.2	66.7	42.4	42.4	48.4	22.7	15.2	13.6
69°	21486.2	11562.1	204.6	97.0	57.6	36.3	39.4	48.4	21.2	13.6	12.1
70°	20660.5	10607.5	180.3	86.4	51.5	33.3	37.9	46.9	19.7	13.6	12.1
72.5°	17206.0	7989.3	140.9	65.1	40.9	27.3	31.9	40.9	19.7	13.6	10.6
75°	12942.4	5113.6	107.6	46.9	30.3	21.2	24.2	30.3	19.7	12.1	10.6
77.5°	7042.4	1843.9	77.3	31.9	21.2	16.7	16.7	22.7	18.2	9.1	6.1
80°	1810.6	463.6	48.4	21.2	16.7	12.1	10.6	15.2	10.6	1.5	0.0
82.5°	447.0	104.5	25.8	15.2	12.1	4.6	4.6	7.5	4.6	0.0	0.0
85°	245.5	51.5	16.7	10.6	6.1	0.0	0.0	1.5	0.0	0.0	0.0
87.5°	125.8	15.2	4.6	3.1	1.5	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)