

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: P322060

Luminaire Tested: **GLEON-SA6D-827-U-T2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322060  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA6D-827-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24269 lumens  
Efficiency: N/A  
Efficacy: 63.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G4

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

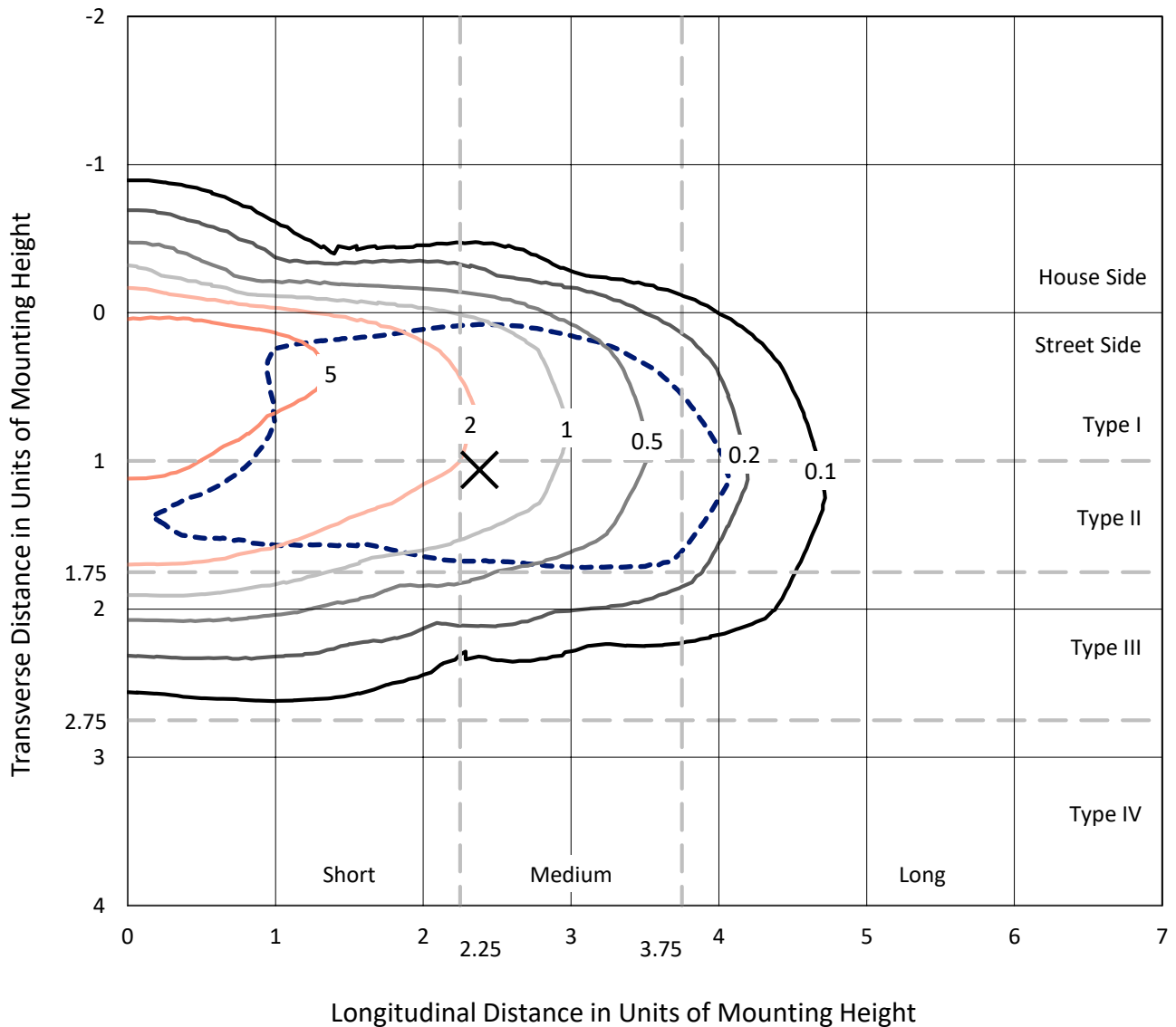




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### Iso-Footcandle Lines of Horizontal Illumination

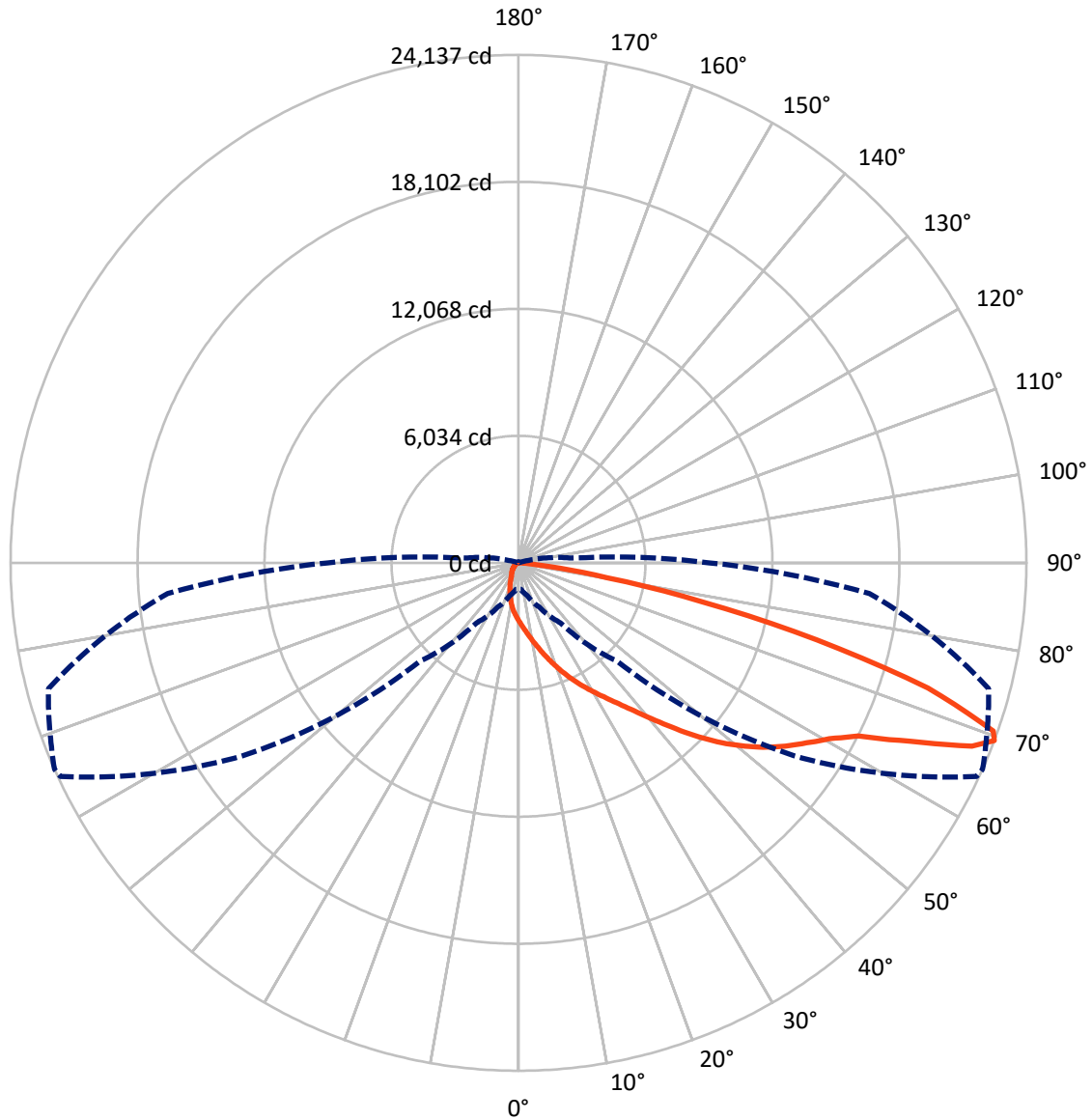
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1455.8	0.0	1455.8
	% Fixture	6.0	0.0	6.0
<b>Street Side</b>	Lumens	22813.2	0.0	22813.2
	% Fixture	94.0	0.0	94.0
<b>Total</b>	Lumens	24269.0	0.0	24269.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	267.0	1.1
10°-20°	794.6	3.3
20°-30°	1383.6	5.7
30°-40°	2427.6	10.0
40°-50°	4063.4	16.7
50°-60°	5972.8	24.6
60°-70°	6132.5	25.3
70°-80°	3027.5	12.5
80°-90°	200.2	0.8
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°	24269.0	100.0
0°-180°	24269.0	100.0

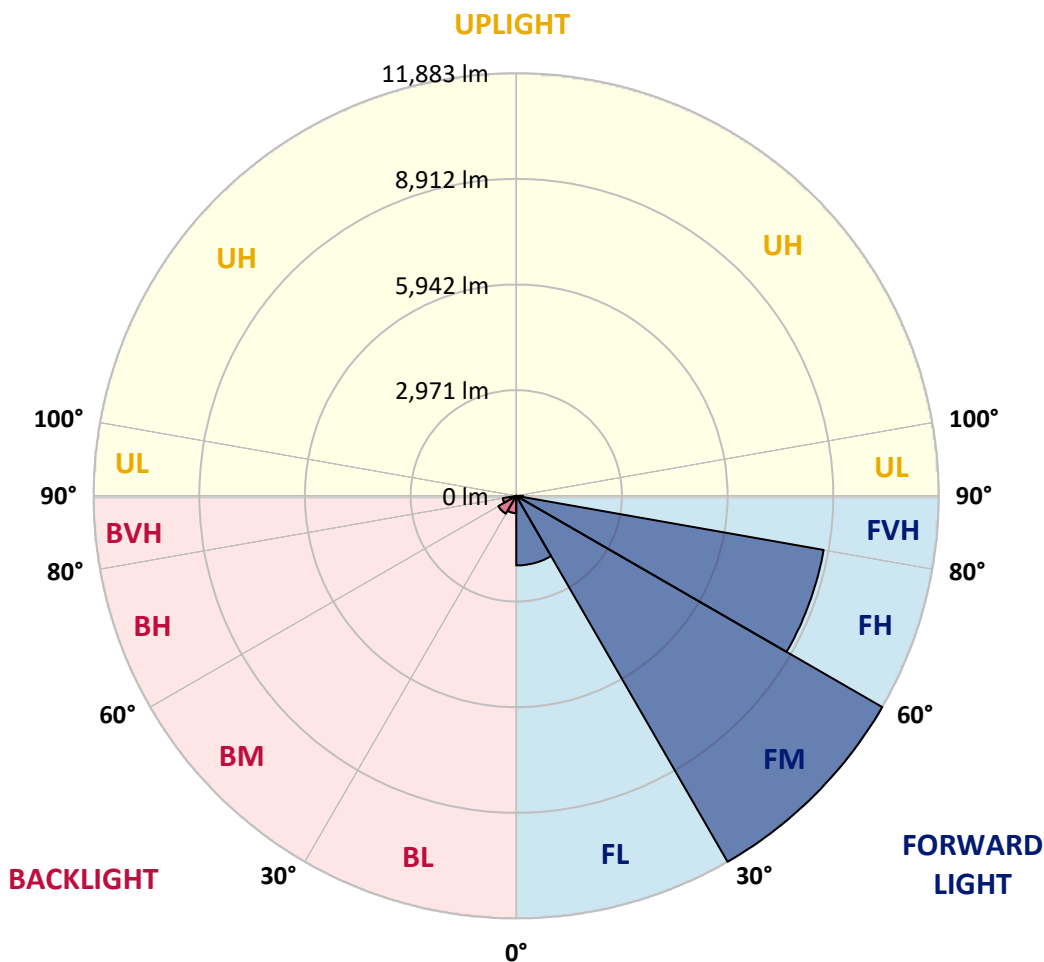


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1958.3	8.1			
FM (30°-60°)	11883.3	49.0			
FH (60°-80°)	8776.3	36.2			G4/12000
FVH (80°-90°)	195.3	0.8			G2/225
BL (0°-30°)	486.9	2.0	B1/500		
BM (30°-60°)	580.4	2.4	B1/1000		
BH (60°-80°)	383.7	1.6	B1/500		G1/500
BVH (80°-90°)	4.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G4**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2761.9	2761.9	2761.9	2761.9	2761.9	2761.9	2761.9	2761.9	2761.9	2761.9	2761.9
2.5°	3250.6	3236.8	3231.0	3205.7	3161.9	3128.5	3063.9	2989.0	2975.1	2902.5	2813.8
5°	3672.5	3661.0	3652.9	3617.2	3572.2	3488.1	3370.5	3231.0	3204.5	3066.2	2888.7
7.5°	3966.5	3987.2	3987.2	3964.2	3907.7	3844.3	3700.2	3510.0	3476.6	3264.5	2989.0
10°	4138.2	4163.6	4183.2	4202.8	4194.7	4169.3	4033.3	3818.9	3778.6	3497.3	3105.4
12.5°	4154.4	4179.7	4235.1	4316.9	4396.4	4454.1	4368.8	4161.3	4115.2	3767.1	3243.7
15°	4064.5	4091.0	4176.3	4335.3	4527.8	4696.1	4723.8	4540.5	4493.3	4088.7	3416.6
17.5°	3907.7	3925.0	4047.2	4267.3	4569.3	4878.3	5045.4	4947.4	4903.6	4456.4	3609.1
20°	3791.3	3803.9	3911.1	4147.4	4544.0	4992.4	5349.7	5379.7	5333.6	4850.6	3817.8
22.5°	3990.7	4013.7	4017.2	4129.0	4474.8	5048.9	5617.1	5805.0	5770.5	5269.0	4023.0
25°	4535.9	4562.4	4474.8	4405.7	4533.6	5074.2	5846.5	6240.8	6213.1	5719.7	4229.3
27.5°	5256.4	5284.0	5171.1	4964.7	4841.4	5169.9	6050.6	6683.4	6682.3	6197.0	4451.8
30°	5964.1	5991.8	5876.5	5670.2	5386.6	5440.8	6226.9	7146.8	7153.7	6689.2	4688.1
32.5°	6706.5	6741.0	6622.3	6357.2	6060.9	5908.8	6474.8	7612.5	7651.7	7259.8	4954.3
35°	7550.2	7554.9	7387.7	7109.9	6768.7	6534.7	6872.4	8134.7	8228.0	7966.4	5292.1
37.5°	8377.9	8411.3	8274.1	7836.1	7522.6	7257.5	7463.8	8787.1	8919.7	8829.7	5733.6
40°	8991.1	9061.4	9041.8	8569.2	8271.8	8082.8	8198.1	9562.9	9731.2	9834.9	6290.3
42.5°	9376.1	9429.2	9519.1	9234.3	8964.6	8995.7	9064.9	10466.6	10674.1	10980.7	6930.1
45°	9817.6	9843.0	9917.9	9792.3	9610.1	9923.7	9984.8	11484.4	11702.3	12212.9	7640.2
47.5°	10357.1	10417.0	10437.8	10322.5	10239.5	10744.4	10871.2	12410.1	12715.5	13532.8	8391.7
50°	11044.1	11060.2	11096.0	11021.0	10938.1	11449.9	11666.6	13381.8	13659.6	14857.3	9132.9
52.5°	11716.1	11773.8	11898.3	11851.0	11817.6	12050.4	12375.5	14257.9	14567.9	15961.6	9873.0
55°	11909.8	11959.4	12389.3	12683.3	12955.3	12790.5	13053.3	15042.8	15378.3	16948.3	10585.3
57.5°	11136.3	11236.6	11981.3	12746.7	13875.2	13940.9	13984.7	15848.6	16149.4	17704.5	11326.5
60°	9181.3	9200.9	10422.8	11735.7	13723.0	14944.9	15344.9	16714.3	16966.7	18408.8	12214.1
62.5°	5839.6	6039.0	7379.6	9233.2	12113.8	14799.6	16989.8	18023.8	18116.0	19253.7	13486.7
65°	2781.5	2910.6	3876.6	5704.8	8774.4	12940.3	18125.2	20392.6	20434.1	20928.6	15186.9
67.5°	1540.0	1602.3	2062.2	3070.8	5129.6	9151.4	17666.4	23198.3	23237.5	22639.2	16678.5
69°	1204.6	1257.6	1619.6	2314.6	3477.7	6577.4	15986.9	24020.1	24136.6	23129.1	16731.6
70°	1022.5	1074.3	1394.8	1955.0	2796.5	5082.3	14230.2	23816.1	23939.5	23083.0	16336.2
72.5°	625.9	655.9	929.1	1376.3	1874.3	2556.7	8775.6	20141.3	20349.9	21174.1	14040.0
75°	421.9	438.0	581.0	949.8	1340.6	1316.4	4559.0	14196.8	14648.6	16471.1	10369.8
77.5°	302.0	317.0	389.6	614.4	939.5	869.1	2064.5	8822.8	8919.7	9878.7	5655.2
80°	171.8	185.6	275.5	365.4	637.4	579.8	820.7	4214.3	4262.7	4236.2	1888.1
82.5°	89.9	101.4	151.0	240.9	409.2	379.2	341.2	1410.9	1417.8	1179.2	413.8
85°	17.3	20.7	74.9	164.8	210.9	164.8	139.5	330.8	337.7	298.6	102.6
87.5°	0.0	1.2	30.0	36.9	41.5	42.7	45.0	64.6	69.2	93.4	27.7
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°	2761.9	2761.9	2761.9	2761.9	2761.9	2761.9	2761.9	2761.9	2761.9	2761.9	2761.9
2.5°	2774.6	2733.1	2653.5	2561.3	2489.9	2419.5	2364.2	2306.6	2285.8	2275.4	2274.3
5°	2802.2	2714.6	2546.3	2373.4	2231.6	2097.9	2002.3	1911.2	1868.5	1848.9	1840.9
7.5°	2848.3	2707.7	2436.8	2172.9	1968.8	1801.7	1669.1	1570.0	1520.4	1499.7	1491.6
10°	2902.5	2698.5	2308.9	1960.8	1700.2	1527.3	1395.9	1298.0	1243.8	1220.7	1209.2
12.5°	2965.9	2682.4	2161.3	1746.4	1470.9	1298.0	1138.9	1017.8	955.6	929.1	916.4
15°	3044.3	2666.2	2006.9	1544.6	1269.1	1058.2	884.1	802.3	789.6	785.0	786.1
17.5°	3121.5	2640.9	1838.6	1345.2	1057.0	826.5	737.7	733.1	735.4	735.4	735.4
20°	3190.7	2583.2	1655.3	1174.6	855.3	697.4	678.9	670.9	665.1	660.5	654.7
22.5°	3244.9	2506.0	1478.9	1005.2	698.5	638.6	609.8	584.4	563.7	549.8	542.9
25°	3281.8	2403.4	1317.5	842.6	628.2	581.0	529.1	486.4	454.2	434.6	426.5
27.5°	3309.4	2292.7	1173.5	705.5	579.8	514.1	446.1	395.4	362.0	344.7	337.7
30°	3329.0	2167.1	1046.7	620.2	525.6	443.8	371.2	321.6	297.4	288.2	283.6
32.5°	3347.5	2027.6	926.8	579.8	474.9	379.2	311.2	273.2	258.2	246.7	243.2
35°	3393.6	1898.5	812.7	537.2	423.0	323.9	267.4	239.8	224.8	217.9	215.6
37.5°	3503.1	1802.8	703.2	493.4	371.2	280.1	234.0	214.4	200.6	193.7	191.3
40°	3679.4	1754.4	610.9	446.1	320.5	246.7	212.1	193.7	178.7	168.3	166.0
42.5°	3938.8	1761.3	546.4	398.8	280.1	220.2	191.3	169.4	153.3	144.1	141.8
45°	4253.5	1812.1	501.4	352.7	246.7	199.4	168.3	145.2	130.3	122.2	119.9
47.5°	4594.7	1893.9	464.5	311.2	220.2	179.8	145.2	121.0	108.4	101.4	100.3
50°	4954.3	1973.4	426.5	270.9	197.1	160.2	122.2	100.3	89.9	84.1	81.8
52.5°	5318.6	2065.7	391.9	234.0	177.5	137.2	101.4	81.8	73.8	69.2	66.9
55°	5710.5	2134.8	358.5	205.2	157.9	116.4	84.1	68.0	61.1	55.3	54.2
57.5°	6171.6	2242.0	323.9	177.5	134.9	96.8	69.2	54.2	48.4	42.7	41.5
60°	6794.1	2367.7	287.0	156.8	110.7	79.5	56.5	43.8	36.9	32.3	31.1
62.5°	7614.8	2507.1	240.9	137.2	89.9	64.6	45.0	34.6	26.5	20.7	20.7
65°	8655.7	2734.2	197.1	115.3	73.8	53.0	34.6	25.4	15.0	9.2	9.2
67.5°	9263.2	2773.4	159.1	94.5	59.9	45.0	28.8	17.3	4.6	1.2	0.0
69°	9068.4	2546.3	134.9	80.7	51.9	42.7	26.5	12.7	2.3	0.0	0.0
70°	8701.8	2328.5	118.7	71.5	47.3	40.3	25.4	9.2	2.3	0.0	0.0
72.5°	7190.6	1657.6	89.9	53.0	34.6	35.7	23.1	5.8	2.3	0.0	0.0
75°	5237.9	1007.5	64.6	36.9	21.9	26.5	16.1	2.3	1.2	0.0	0.0
77.5°	2914.0	474.9	40.3	20.7	13.8	16.1	8.1	0.0	0.0	0.0	0.0
80°	946.4	129.1	18.4	11.5	8.1	9.2	3.5	0.0	0.0	0.0	0.0
82.5°	175.2	36.9	10.4	5.8	2.3	2.3	0.0	0.0	0.0	0.0	0.0
85°	38.0	15.0	5.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.7	4.6	1.2	0.0	0.0	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)