

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: P383476

Luminaire Tested: **GLEON-SA7D-735-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383476
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-SA7D-735-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 41493 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

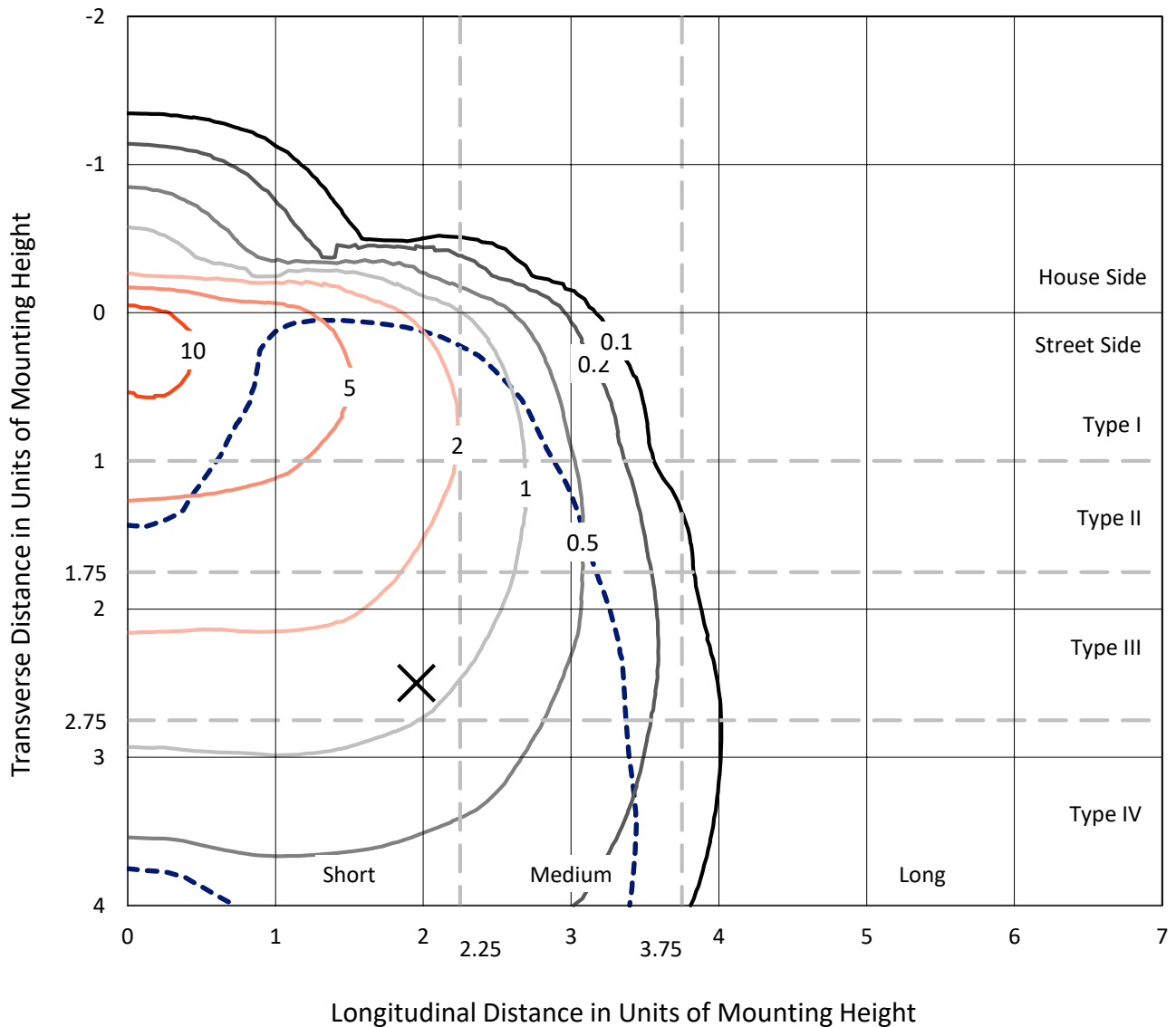
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

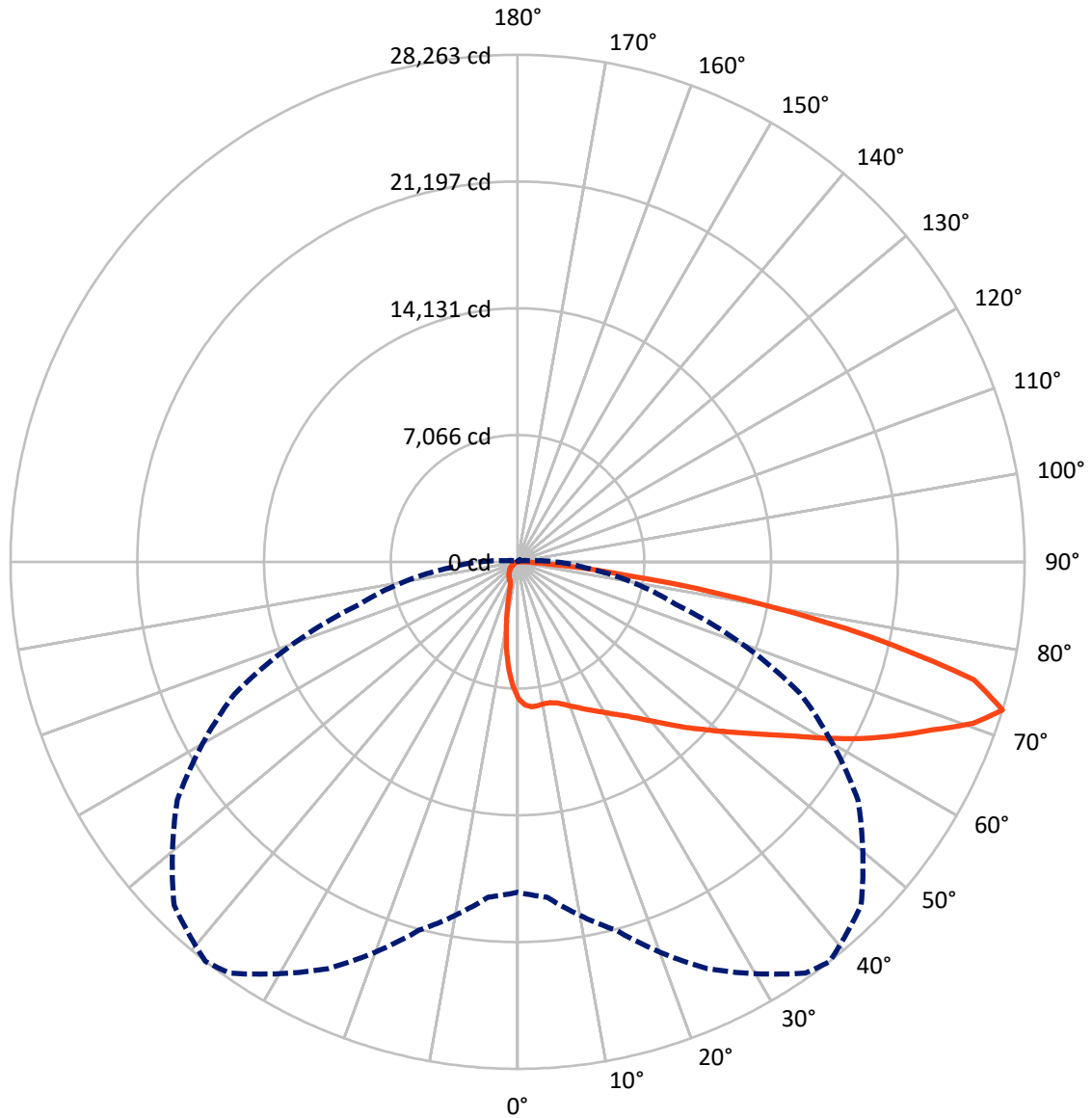
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 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	3491.8	0.0	3491.8
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	38001.2	0.0	38001.2
	% Fixture	91.6	0.0	91.6
Total	Lumens	41493.0	0.0	41493.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	650.3	1.6
10°-20°	1590.0	3.8
20°-30°	2528.9	6.1
30°-40°	3801.9	9.2
40°-50°	5800.1	14.0
50°-60°	8197.5	19.8
60°-70°	10282.5	24.8
70°-80°	7688.4	18.5
80°-90°	953.3	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°	41493.0	100.0
0°-180°	41493.0	100.0

Coefficient of Utilization

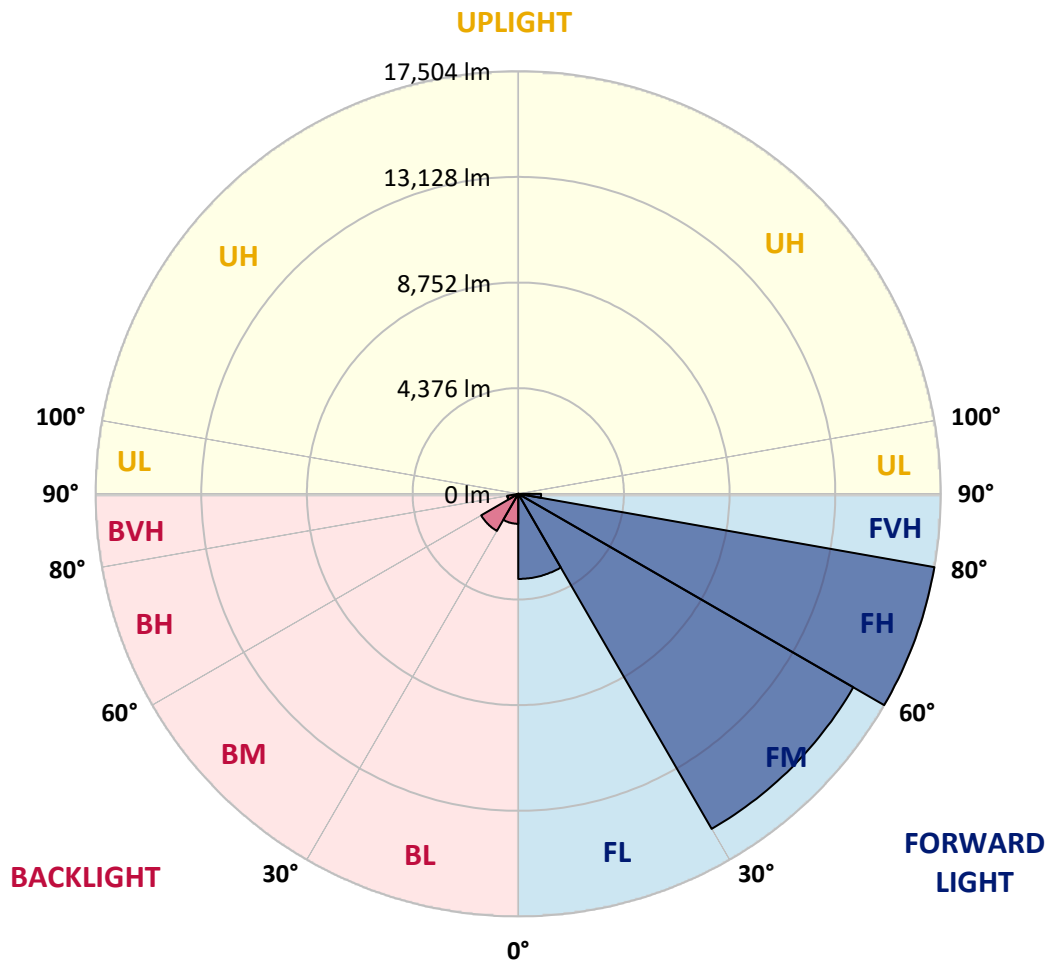


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3525.9	8.5			
FM (30°-60°)	16026.4	38.6			
FH (60°-80°)	17504.4	42.2			G5
FVH (80°-90°)	944.4	2.3			G5
BL (0°-30°)	1243.3	3.0	B3/2500		
BM (30°-60°)	1773.2	4.3	B2/2500		
BH (60°-80°)	466.4	1.1	B1/500		G1/500
BVH (80°-90°)	8.9	0.0			G0/10
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°	7630.4	7630.4	7630.4	7630.4	7630.4	7630.4	7630.4	7630.4	7630.4	7630.4	7630.4
2.5°	8099.2	8100.8	8081.9	8050.9	8011.2	7990.5	7956.1	7901.0	7842.4	7737.2	7623.5
5°	8264.6	8264.6	8240.5	8199.1	8135.3	8116.4	8050.9	7963.0	7842.4	7671.8	7480.5
7.5°	8247.4	8250.8	8218.0	8175.0	8111.2	8093.9	8014.7	7916.5	7766.6	7559.8	7315.1
10°	8157.7	8166.3	8140.5	8119.8	8061.2	8042.2	7968.2	7870.0	7720.0	7499.4	7218.6
12.5°	8066.4	8075.0	8083.6	8102.6	8066.4	8059.5	8000.9	7918.2	7775.2	7546.0	7228.9
15°	8007.8	8025.0	8087.0	8161.2	8169.8	8162.9	8125.0	8047.5	7902.7	7664.9	7303.1
17.5°	8007.8	8035.3	8164.6	8306.0	8355.9	8361.1	8328.3	8219.8	8047.5	7792.4	7371.9
20°	8075.0	8112.9	8314.5	8514.4	8597.2	8597.2	8533.3	8381.8	8180.1	7907.9	7418.5
22.5°	8247.4	8297.3	8550.6	8781.5	8869.5	8850.4	8764.3	8543.7	8318.0	8038.8	7477.1
25°	8586.8	8624.7	8888.4	9121.0	9174.4	9131.3	9022.8	8740.2	8493.8	8216.3	7583.9
27.5°	9024.6	9029.7	9302.0	9498.4	9465.6	9436.4	9300.2	8986.6	8747.0	8469.6	7768.3
30°	9505.3	9505.3	9744.8	9894.7	9794.8	9770.6	9634.5	9284.7	9071.0	8814.3	8030.2
32.5°	9970.5	9991.2	10186.0	10280.7	10168.8	10144.6	10011.9	9662.1	9501.9	9339.9	8438.6
35°	10420.3	10435.8	10620.2	10671.9	10565.1	10571.9	10477.2	10180.8	10120.5	10099.8	9053.8
37.5°	10856.3	10859.7	11047.6	11080.3	11026.9	11085.5	11094.1	10832.1	10944.2	11111.3	9920.6
40°	11254.4	11257.8	11443.9	11528.4	11619.7	11695.5	11762.7	11623.1	11993.6	12381.4	10952.8
42.5°	11573.2	11609.3	11845.5	12005.7	12247.0	12391.7	12574.3	12567.4	13243.0	13825.4	12200.4
45°	11854.0	11916.1	12245.2	12526.1	12939.7	13170.6	13456.7	13680.6	14649.1	15433.1	13463.6
47.5°	12224.5	12283.1	12658.8	13118.9	13670.3	13973.6	14447.5	14931.7	16194.9	17011.6	14697.4
50°	12746.6	12720.8	13091.3	13751.3	14459.6	14857.6	15533.1	16258.6	17728.5	18386.8	15422.8
52.5°	13303.2	13292.9	13567.0	14438.9	15390.1	15855.4	16748.0	17630.3	19195.0	19334.5	15755.5
55°	13992.6	13918.4	14149.4	15223.0	16494.6	16994.4	18045.6	18988.2	20363.4	19868.7	15922.6
57.5°	14714.6	14592.2	14812.8	16096.6	17740.6	18331.6	19482.8	20311.7	21140.4	20234.1	15920.8
60°	15460.7	15315.9	15577.9	17189.1	19288.0	19972.1	21040.5	21205.9	21865.9	20418.4	15803.7
62.5°	16084.6	15998.4	16387.9	18357.4	21016.4	21688.5	22217.5	22019.4	22477.7	20561.5	15529.6
65°	16744.6	16749.7	17378.7	19720.6	22853.4	23306.6	23351.4	23074.0	22989.5	20532.1	14602.6
67.5°	17637.2	17719.9	18769.3	21571.3	24640.4	24990.2	24986.7	24216.4	23363.4	19367.2	12546.7
70°	18581.5	18776.2	20371.9	23689.2	26591.0	26946.0	26763.4	24943.6	21998.7	15660.6	8879.8
72.5°	18422.9	18760.7	21262.9	25024.6	27992.0	28262.6	27075.2	23156.7	17387.3	9102.1	3780.8
75°	14213.1	14604.3	19496.5	23701.2	26522.1	26279.1	23263.4	18019.8	9501.9	2540.1	851.2
77.5°	7508.1	7716.6	12879.4	18055.9	20680.4	20172.0	16387.9	9996.4	2896.7	629.0	382.6
80°	3932.4	3980.6	5612.6	10244.5	12763.9	12767.3	9712.0	4390.8	1194.2	322.2	256.7
82.5°	2105.8	2147.1	2965.7	4733.7	6687.9	6062.3	3718.7	2416.0	694.5	182.7	246.4
85°	506.7	515.2	1681.9	2162.7	2629.7	1878.3	1104.6	2028.3	187.8	106.8	199.9
87.5°	194.7	198.1	623.8	935.7	670.3	434.3	517.0	756.5	24.1	41.4	31.0
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°	7630.4	7630.4	7630.4	7630.4	7630.4	7630.4	7630.4	7630.4	7630.4	7630.4	7630.4
2.5°	7554.6	7509.8	7399.5	7259.9	7135.8	7046.2	6911.8	6824.0	6765.4	6763.7	6741.2
5°	7363.3	7272.0	7034.2	6751.6	6494.8	6263.9	5991.6	5776.2	5616.0	5590.1	5535.0
7.5°	7158.3	7008.3	6643.1	6201.9	5771.0	5333.4	4825.0	4509.7	4239.1	4109.9	4096.1
10°	7032.4	6822.2	6303.5	5666.0	4990.5	4278.8	3613.6	3153.5	2820.9	2726.2	2655.5
12.5°	7006.6	6729.2	6041.6	5162.7	4197.7	3256.9	2521.0	2031.7	1766.3	1681.9	1659.5
15°	7032.4	6686.1	5821.1	4664.7	3394.7	2310.8	1692.2	1407.8	1307.9	1283.8	1282.1
17.5°	7048.0	6634.4	5571.2	4111.6	2615.9	1650.9	1295.9	1213.2	1197.6	1195.9	1199.4
20°	7046.2	6555.1	5273.0	3494.7	1945.5	1297.6	1171.8	1154.6	1151.1	1152.8	1151.1
22.5°	7034.2	6462.1	4945.7	2858.8	1469.9	1159.7	1118.4	1108.1	1106.3	1106.3	1106.3
25°	7056.6	6388.0	4585.4	2250.5	1211.4	1096.0	1070.2	1061.5	1059.8	1059.8	1056.4
27.5°	7137.6	6346.6	4190.8	1731.8	1094.3	1039.1	1018.5	1016.7	1011.6	1009.8	1013.2
30°	7268.6	6346.6	3758.3	1347.6	1023.6	980.5	965.0	961.5	959.9	958.1	959.9
32.5°	7499.4	6394.9	3286.2	1120.1	956.4	915.1	904.7	909.8	904.7	904.7	904.7
35°	7916.5	6539.7	2791.7	977.1	885.7	851.2	840.9	847.8	844.4	844.4	842.7
37.5°	8524.8	6808.4	2293.6	890.9	823.7	787.5	773.7	784.1	780.6	780.6	778.9
40°	9265.7	7199.7	1819.7	825.4	763.4	725.5	713.4	718.6	709.9	709.9	713.4
42.5°	10180.8	7695.9	1406.2	761.6	703.0	666.9	660.0	654.8	639.3	630.7	632.4
45°	11197.5	8212.9	1096.0	699.6	646.2	616.9	606.5	592.7	566.9	549.7	551.5
47.5°	12105.6	8610.9	890.9	639.3	594.5	572.1	556.6	530.8	492.9	472.2	473.9
50°	12583.0	8671.2	758.2	579.0	546.3	523.9	501.5	461.9	417.1	394.6	392.9
52.5°	12705.3	8388.7	660.0	523.9	498.0	472.2	442.9	389.5	339.5	315.3	311.9
55°	12750.1	7957.8	572.1	472.2	446.3	417.1	379.1	318.8	272.3	248.2	246.4
57.5°	12601.9	7315.1	503.2	425.6	394.6	358.5	311.9	255.1	210.3	191.2	191.2
60°	12272.8	6444.8	449.8	375.7	341.2	299.9	251.6	198.1	156.8	141.3	141.3
62.5°	11616.2	5317.8	399.8	324.0	291.2	248.2	203.4	149.9	110.3	101.6	103.4
65°	10377.3	4034.1	349.8	277.4	248.2	205.0	158.5	106.8	74.1	74.1	77.5
67.5°	8462.7	2802.0	298.1	236.1	213.7	167.1	120.6	74.1	51.7	58.6	65.5
70°	5602.2	1571.6	255.1	194.7	182.7	132.7	89.6	49.9	41.4	55.1	67.2
72.5°	2114.4	611.7	213.7	156.8	158.5	101.6	63.7	37.9	37.9	60.3	79.3
75°	589.3	299.9	153.3	115.4	124.1	74.1	46.5	32.7	36.1	68.9	93.1
77.5°	346.3	220.6	100.0	67.2	84.4	51.7	31.0	25.8	31.0	58.6	89.6
80°	279.2	117.2	58.6	34.5	46.5	29.3	20.7	15.5	8.6	22.4	46.5
82.5°	279.2	70.6	27.6	24.1	24.1	15.5	10.3	6.9	1.7	0.0	12.0
85°	187.8	29.3	17.2	15.5	12.0	5.1	3.4	1.7	0.0	0.0	0.0
87.5°	31.0	12.0	6.9	3.4	1.7	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)