

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: P532521

Luminaire Tested: **GALN-SA7D-827-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532521
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-827-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23120 lumens
Efficiency: N/A
Efficacy: 53.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

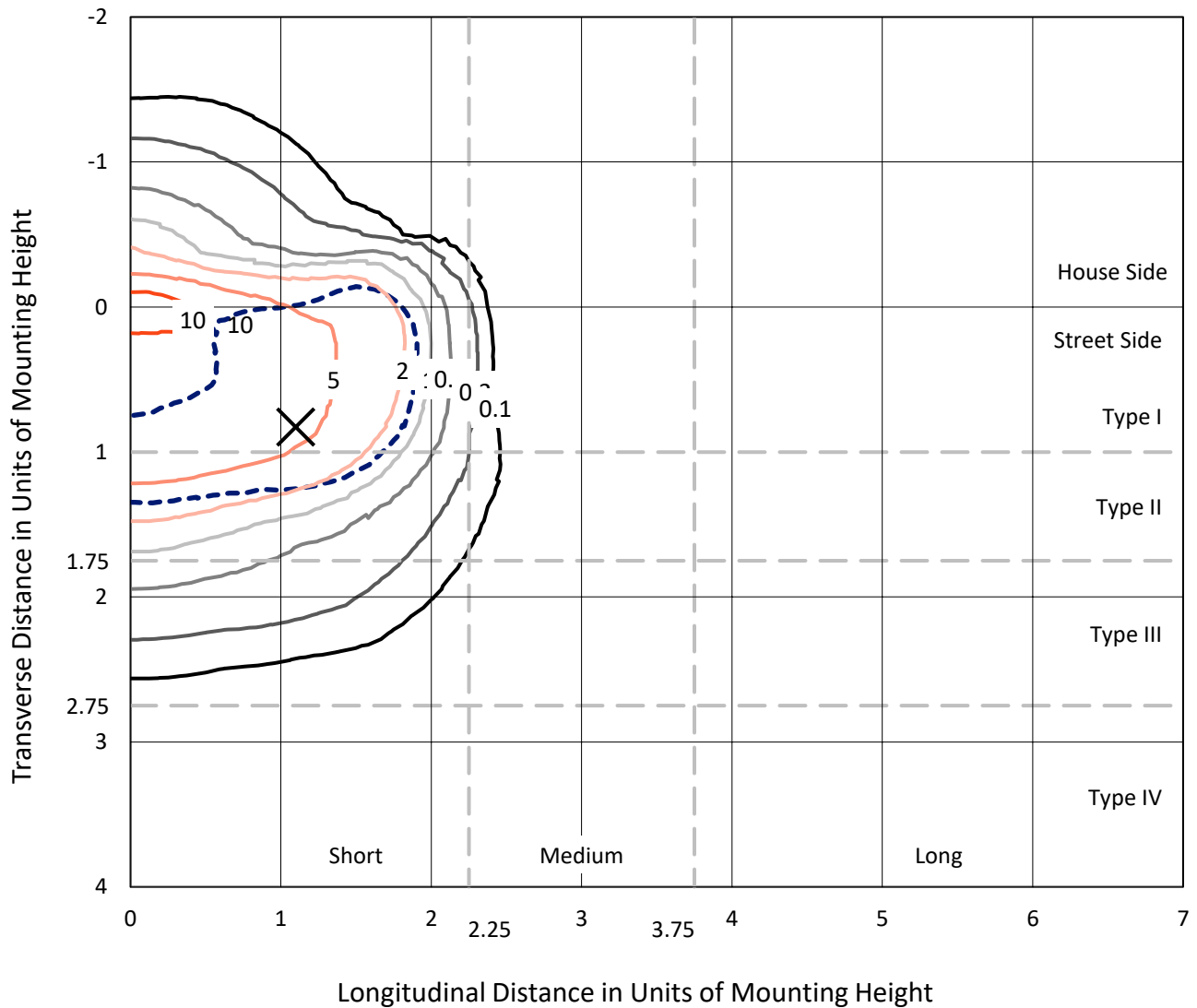
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P532521
 CATALOG NUMBER: GALN-SA7D-827-U-SL2-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

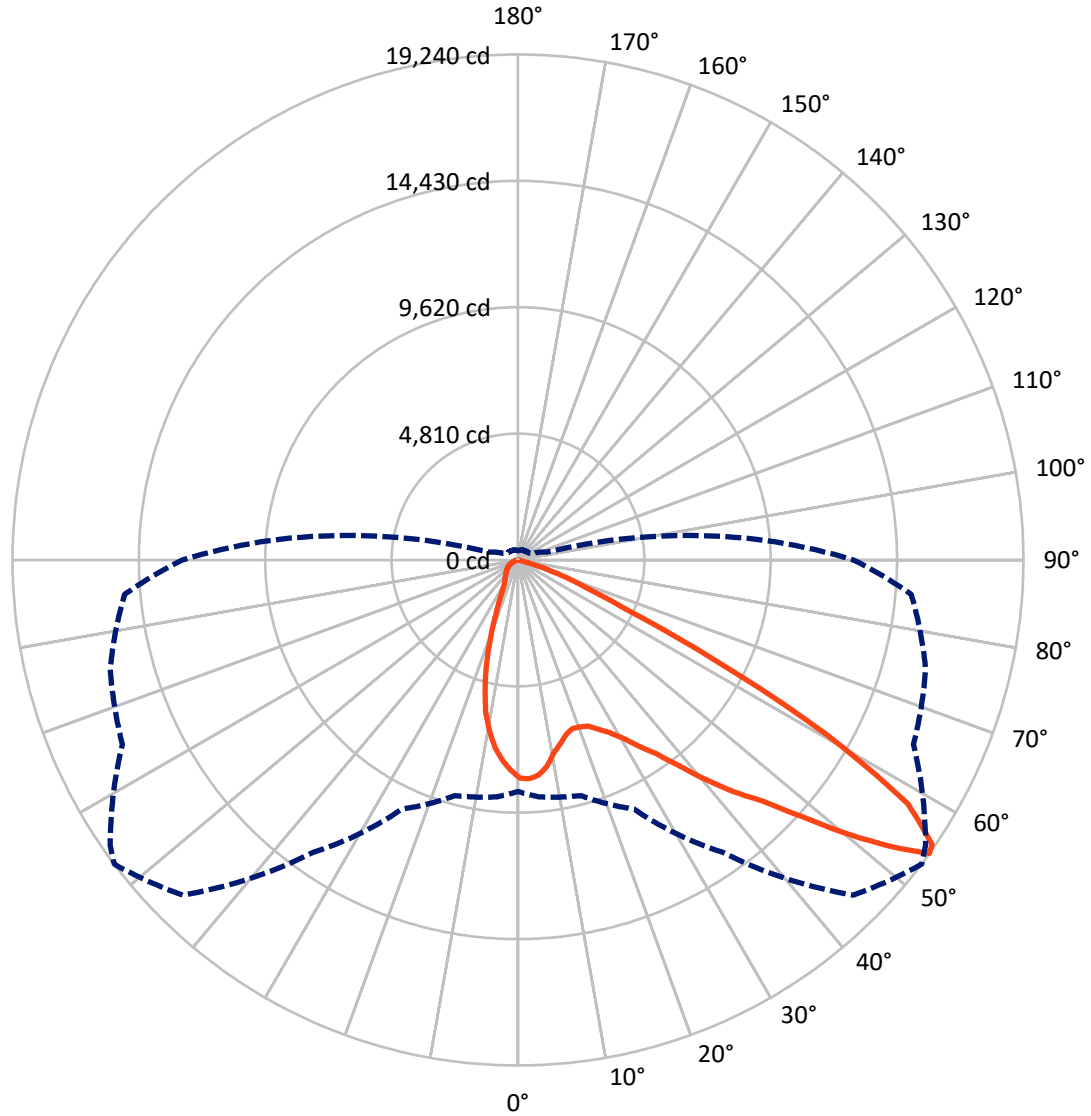
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc
 Type II - Short - N/A

REPORT NUMBER: P532521
CATALOG NUMBER: GALN-SA7D-827-U-SL2-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

REPORT NUMBER: P532521
 CATALOG NUMBER: GALN-SA7D-827-U-SL2-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3825.3	0.0	3825.3
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	19294.7	0.0	19294.7
	% Fixture	83.5	0.0	83.5
Total	Lumens	23120.0	0.0	23120.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	712.5	3.1
10°-20°	1633.5	7.1
20°-30°	2321.6	10.0
30°-40°	3582.8	15.5
40°-50°	5617.5	24.3
50°-60°	6525.5	28.2
60°-70°	2465.7	10.7
70°-80°	234.5	1.0
80°-90°	26.4	0.1
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°	23120.0	100.0
0°-180°	23120.0	100.0

Coefficient of Utilization



REPORT NUMBER: P532521

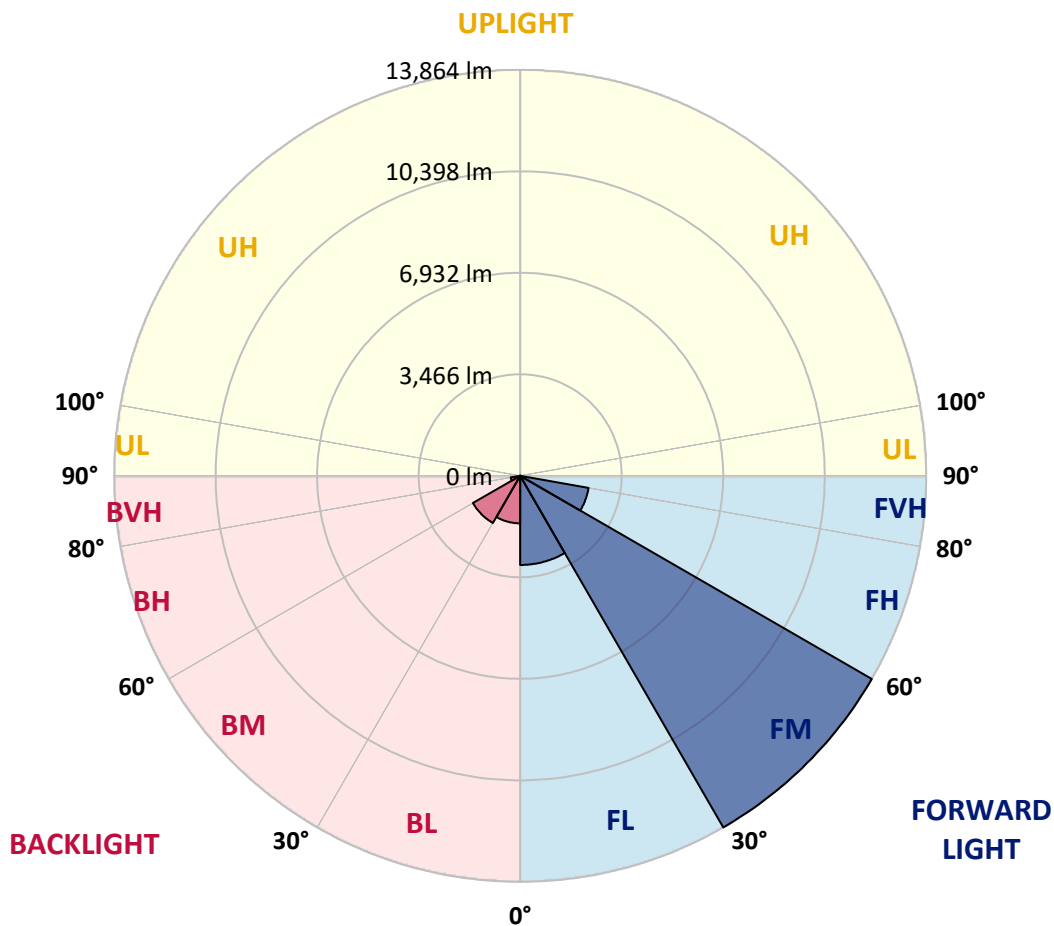
CATALOG NUMBER: GALN-SA7D-827-U-SL2-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3044.3	13.2			
FM (30°-60°)	13864.3	60.0			
FH (60°-80°)	2372.5	10.3			G2/5000
FVH (80°-90°)	13.6	0.1			G1/100
BL (0°-30°)	1623.3	7.0	B3/2500		
BM (30°-60°)	1861.5	8.1	B2/2500		
BH (60°-80°)	327.7	1.4	B1/500		G1/500
BVH (80°-90°)	12.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





REPORT NUMBER: P532521

CATALOG NUMBER: GALN-SA7D-827-U-SL2-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	8304.3	8304.3	8304.3	8304.3	8304.3	8304.3	8304.3	8304.3	8304.3	8304.3	8304.3
2.5°	8261.2	8188.0	8261.2	8269.9	8321.5	8368.9	8338.8	8407.7	8368.9	8325.9	8312.9
5°	7593.6	7692.7	7697.0	7852.1	7817.6	8101.9	8226.8	8192.3	8403.4	8390.5	8360.3
7.5°	6994.9	6956.2	7007.8	7188.7	7417.0	7744.4	7925.3	7921.0	8222.5	8437.8	8416.3
10°	6439.3	6435.0	6542.7	6684.8	6878.6	7223.2	7473.0	7597.9	8067.4	8394.8	8442.1
12.5°	6064.6	6047.3	6163.6	6279.9	6585.7	6852.8	7171.5	7231.8	7770.2	8244.0	8321.5
15°	5819.1	5857.8	5866.4	6090.4	6284.2	6637.4	6887.2	7012.1	7632.4	8123.4	8420.6
17.5°	5776.0	5827.7	5832.0	6017.2	6223.9	6521.1	6740.8	6908.8	7516.1	8183.7	8424.9
20°	5862.1	5832.0	5857.8	5974.1	6176.5	6460.8	6779.6	6835.6	7477.3	8213.9	8472.3
22.5°	6107.6	6099.0	6034.4	6129.2	6271.3	6568.5	6870.0	6956.2	7589.3	8368.9	8511.1
25°	6379.0	6426.4	6366.1	6353.1	6452.2	6745.1	7145.7	7257.7	7964.0	8648.9	8631.7
27.5°	6887.2	6839.9	6839.9	6779.6	6753.7	6895.9	7442.9	7628.1	8381.8	9010.7	8769.5
30°	7374.0	7425.6	7386.9	7408.4	7236.1	7223.2	7865.0	8093.3	9122.7	9562.0	9062.4
32.5°	8144.9	8076.0	8140.6	8084.6	7856.4	7623.8	8437.8	8674.7	10018.6	10195.2	9501.7
35°	8786.7	8756.6	9032.2	9023.6	8653.2	8424.9	9045.2	9398.3	10643.1	10953.3	10018.6
37.5°	9699.9	9643.9	9958.3	10109.0	9777.4	9437.1	9915.2	10324.4	11224.6	11560.6	10548.4
40°	10638.8	10781.0	11203.1	11452.9	11099.7	10647.4	10979.1	11104.0	11612.3	11956.8	10910.2
42.5°	11827.6	12034.4	12465.1	12680.4	12650.3	12159.3	12060.2	12055.9	11892.2	11844.8	11177.2
45°	12969.0	12891.5	13554.8	14024.3	14403.3	14261.2	13102.6	12973.3	12335.9	12012.8	11246.1
47.5°	13468.7	13442.8	13895.1	14730.7	16022.8	16199.4	14618.7	14119.1	13085.3	12719.2	11620.9
50°	12822.6	12956.1	13404.1	14330.1	16311.4	17659.6	16479.4	15807.5	13959.7	13580.7	12508.2
52.5°	10712.0	10802.5	11228.9	12404.8	15329.4	18521.0	18262.6	17875.0	15566.3	14937.4	14054.4
54°	8808.3	9049.5	9282.1	10462.2	13580.7	18042.9	19240.3	18943.1	16612.9	16065.9	15027.9
55°	7671.2	7813.3	7981.3	9157.1	12370.3	17233.2	19128.4	19154.2	17315.0	16419.1	15682.6
57.5°	5603.7	5702.8	5530.5	6051.6	8493.8	13994.1	17495.9	18193.7	18262.6	16948.9	16083.1
60°	4281.4	4324.4	4130.6	4212.5	5280.6	9605.1	13533.3	14373.2	16475.1	14812.5	13623.7
62.5°	3320.9	3329.5	3325.2	3467.3	3639.6	5651.1	8463.7	9208.8	11358.1	10518.2	9251.9
65°	2446.5	2407.7	2476.6	2907.4	3105.5	3553.5	4458.0	5000.7	6172.2	5211.7	3725.7
67.5°	1585.1	1598.0	1666.9	2162.2	2661.9	2726.5	2743.7	2700.6	2704.9	1490.3	934.7
70°	951.9	973.4	951.9	1223.2	1903.8	1955.5	1787.5	1744.4	1361.1	353.2	348.9
72.5°	564.2	534.1	478.1	525.5	792.5	947.6	852.8	848.5	534.1	206.7	206.7
75°	236.9	215.4	176.6	159.4	211.1	202.4	202.4	180.9	142.1	137.8	129.2
77.5°	47.4	47.4	34.5	38.8	51.7	60.3	73.2	73.2	86.1	86.1	81.8
80°	0.0	4.3	12.9	25.8	38.8	56.0	64.6	64.6	73.2	73.2	60.3
82.5°	0.0	4.3	12.9	25.8	34.5	51.7	64.6	64.6	73.2	77.5	64.6
85°	0.0	4.3	12.9	21.5	34.5	43.1	43.1	38.8	30.2	25.8	17.2
87.5°	0.0	0.0	4.3	8.6	4.3	8.6	8.6	8.6	8.6	8.6	8.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P532521

CATALOG NUMBER: GALN-SA7D-827-U-SL2-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8304.3	8304.3	8304.3	8304.3	8304.3	8304.3	8304.3	8304.3	8304.3	8304.3	8304.3
2.5°	8343.1	8338.8	8235.4	8067.4	8028.7	7886.5	7869.3	7783.1	7830.5	7671.2	7653.9
5°	8274.2	8222.5	8097.6	7989.9	7675.5	7451.5	7274.9	7059.5	6934.6	6956.2	6874.3
7.5°	8373.2	8239.7	8020.0	7645.3	7262.0	6870.0	6659.0	6219.6	6060.3	5823.4	5788.9
10°	8269.9	8170.8	7830.5	7210.3	6680.5	6116.2	5620.9	5134.2	4763.8	4604.4	4570.0
12.5°	8261.2	8089.0	7520.4	6831.2	6064.6	5254.8	4535.5	3928.2	3562.1	3355.3	3307.9
15°	8127.7	7921.0	7171.5	6245.5	5185.9	4178.0	3394.1	2808.3	2528.3	2407.7	2442.2
17.5°	8140.6	7830.5	6822.6	5625.2	4320.1	3066.7	2317.3	2015.8	1942.6	1972.7	1972.7
20°	8127.7	7628.1	6400.5	4910.2	3307.9	2127.8	1701.4	1593.7	1641.0	1735.8	1714.3
22.5°	8058.8	7533.3	6012.9	4156.5	2433.6	1576.4	1365.4	1369.7	1442.9	1559.2	1585.1
25°	8110.5	7322.3	5521.9	3394.1	1774.6	1257.7	1184.5	1214.6	1292.2	1378.3	1395.5
27.5°	8071.7	7171.5	5009.3	2636.0	1296.5	1081.1	1076.8	1111.3	1145.7	1210.3	1210.3
30°	8114.8	7033.7	4505.3	1959.8	1068.2	990.7	973.4	999.3	1033.7	1046.7	1042.3
32.5°	8274.2	6930.3	3923.9	1464.5	943.3	904.5	904.5	904.5	900.2	917.4	921.7
35°	8623.0	6947.5	3411.3	1132.8	861.4	831.3	818.4	801.1	792.5	801.1	805.4
37.5°	9002.1	6938.9	2881.5	964.8	801.1	775.3	745.1	719.3	715.0	723.6	710.7
40°	9170.1	7020.8	2390.5	865.8	745.1	715.0	667.6	646.1	650.4	659.0	650.4
42.5°	9398.3	7046.6	2071.8	788.2	693.5	646.1	615.9	590.1	585.8	598.7	594.4
45°	9394.0	6900.2	1735.8	745.1	646.1	594.4	555.6	534.1	534.1	542.7	547.0
47.5°	9669.7	6878.6	1490.3	706.4	611.6	559.9	512.6	495.3	491.0	491.0	482.4
50°	10311.5	7180.1	1300.8	663.3	568.6	521.2	482.4	460.9	443.6	435.0	430.7
52.5°	11564.9	8119.1	1154.3	611.6	521.2	482.4	448.0	430.7	409.2	387.6	383.3
54°	12779.5	9088.2	1145.7	568.6	482.4	456.6	426.4	417.8	392.0	361.8	353.2
55°	13326.5	9652.5	1175.9	534.1	456.6	439.3	413.5	404.9	379.0	344.6	340.3
57.5°	13778.8	9872.1	1158.6	443.6	413.5	409.2	387.6	374.7	344.6	297.2	288.6
60°	11091.1	7464.4	831.3	392.0	379.0	370.4	353.2	344.6	305.8	254.1	249.8
62.5°	7007.8	4294.3	529.8	344.6	331.7	318.7	297.2	288.6	254.1	202.4	189.5
65°	2984.9	1778.9	357.5	305.8	284.3	262.7	245.5	232.6	202.4	150.8	146.4
67.5°	775.3	633.2	297.2	267.0	236.9	206.7	193.8	172.3	137.8	103.4	99.1
70°	348.9	318.7	249.8	224.0	189.5	159.4	142.1	120.6	90.5	68.9	64.6
72.5°	206.7	202.4	189.5	168.0	142.1	120.6	103.4	81.8	60.3	38.8	38.8
75°	129.2	124.9	129.2	116.3	99.1	90.5	77.5	56.0	34.5	17.2	17.2
77.5°	77.5	77.5	77.5	73.2	68.9	68.9	56.0	34.5	17.2	4.3	4.3
80°	60.3	60.3	64.6	60.3	60.3	60.3	47.4	25.8	8.6	0.0	0.0
82.5°	60.3	64.6	73.2	68.9	60.3	51.7	43.1	25.8	8.6	0.0	0.0
85°	17.2	12.9	21.5	30.2	43.1	38.8	30.2	21.5	8.6	0.0	0.0
87.5°	8.6	8.6	8.6	8.6	4.3	4.3	4.3	4.3	4.3	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)