

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: STREETWORKS

Report Number: P324841

Luminaire Tested: **GAN-SA7B-750-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324841
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7B-750-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33088 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

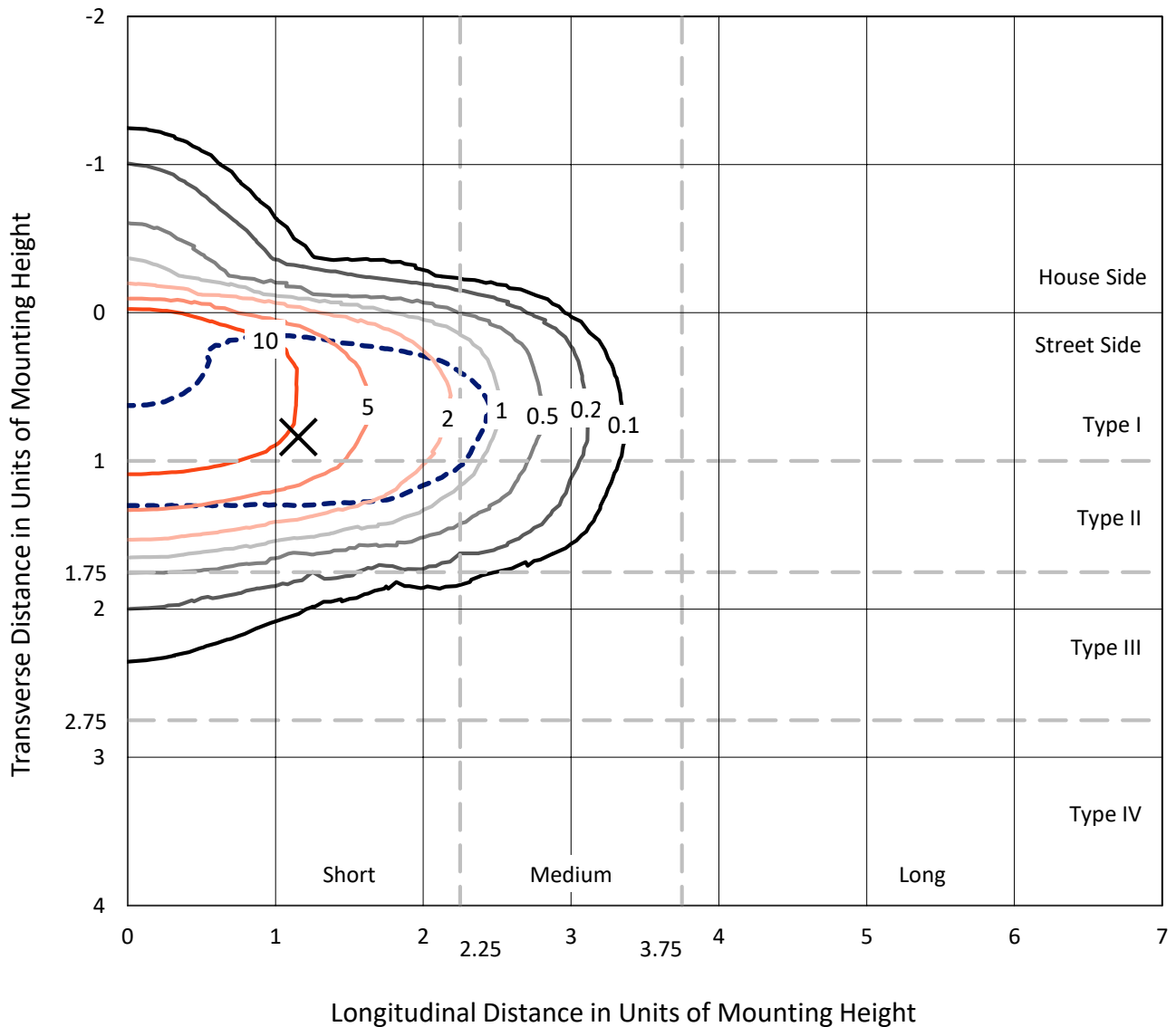
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

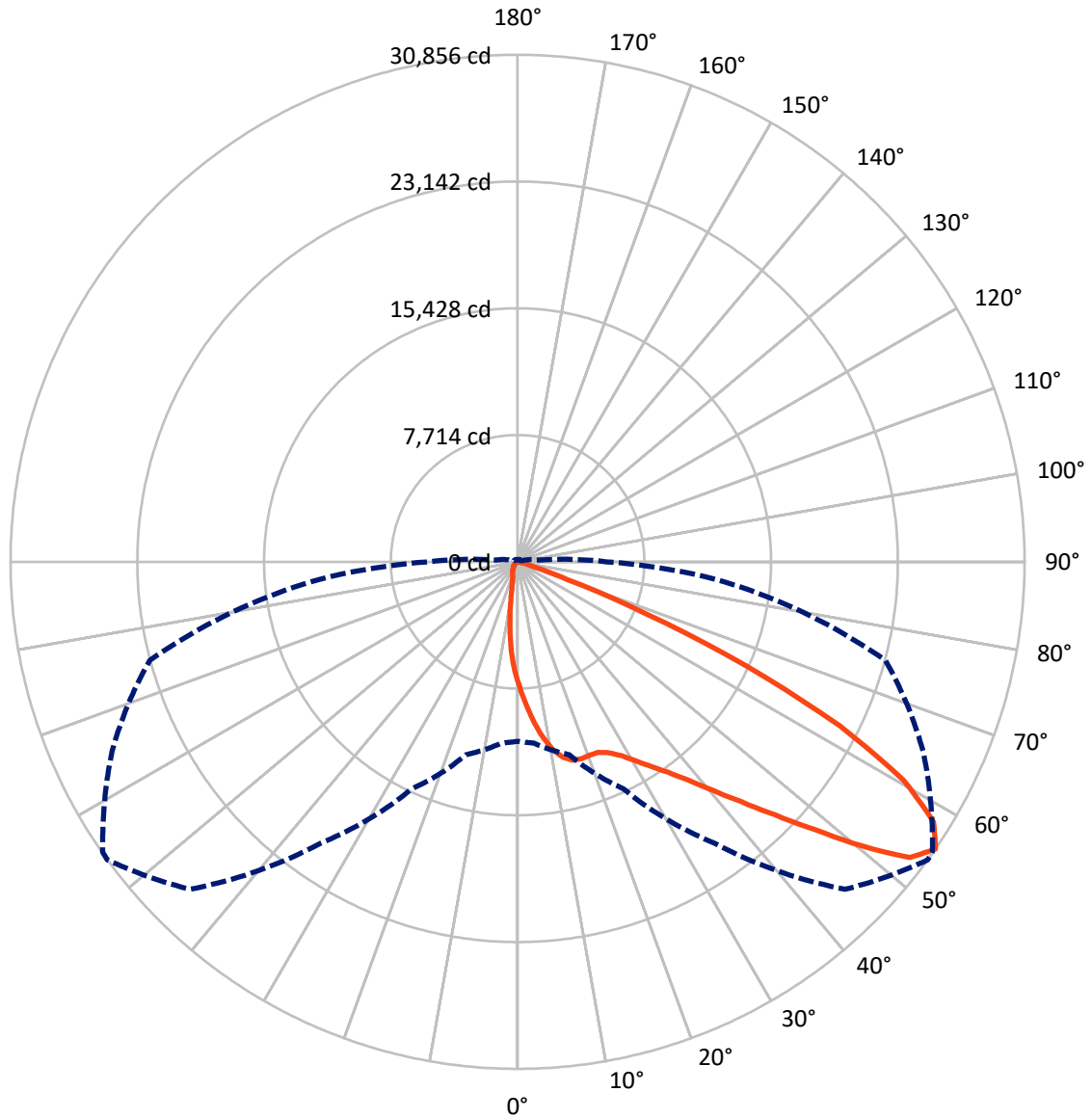
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1650.8	0.0	1650.8
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	31437.1	0.0	31437.1
	% Fixture	95.0	0.0	95.0
Total	Lumens	33088.0	0.0	33088.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	682.4	2.1
10°-20°	1871.5	5.7
20°-30°	3195.3	9.7
30°-40°	5128.0	15.5
40°-50°	8194.5	24.8
50°-60°	8780.6	26.5
60°-70°	4508.2	13.6
70°-80°	682.9	2.1
80°-90°	44.5	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°	33088.0	100.0
0°-180°	33088.0	100.0

Coefficient of Utilization

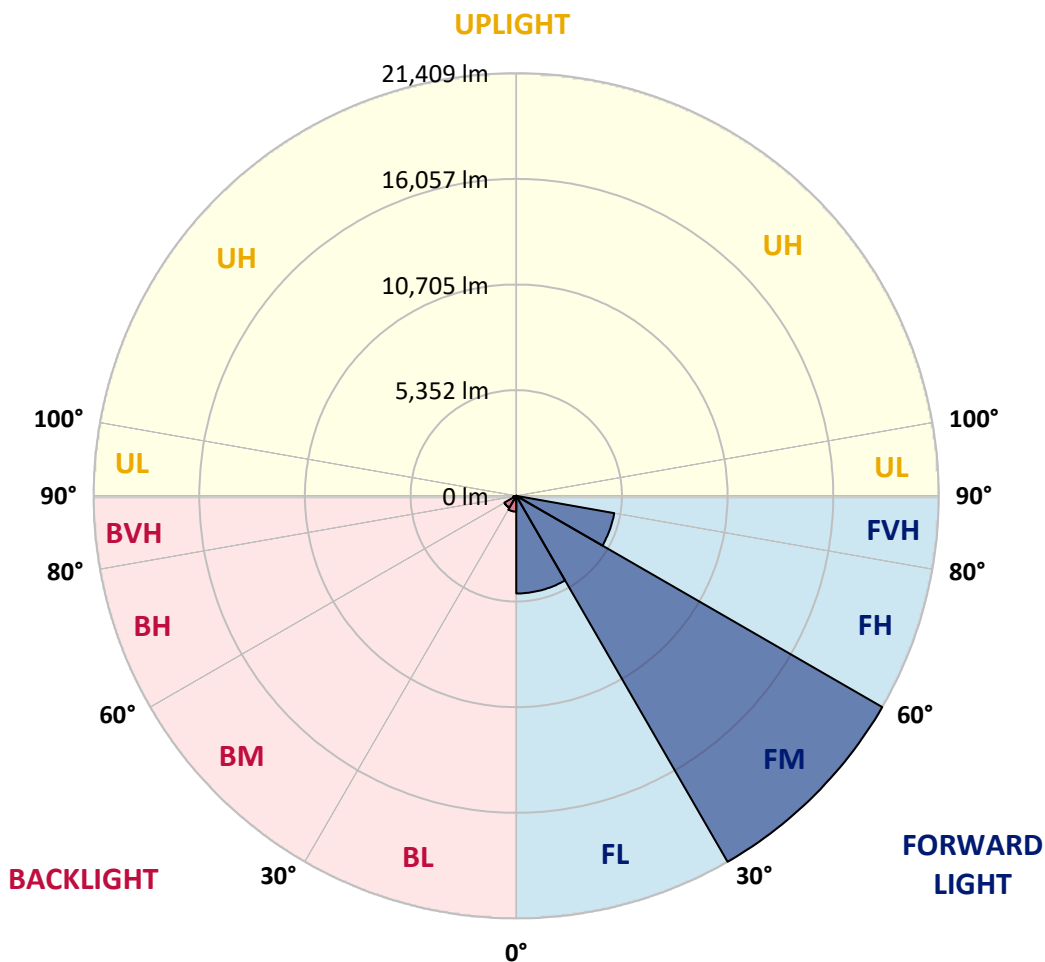


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4946.1	14.9			
FM (30°-60°)	21409.4	64.7			
FH (60°-80°)	5039.0	15.2			G3/7500
FVH (80°-90°)	42.7	0.1			G1/100
BL (0°-30°)	803.2	2.4	B2/1000		
BM (30°-60°)	693.7	2.1	B1/1000		
BH (60°-80°)	152.1	0.5	B1/500		G1/500
BVH (80°-90°)	1.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7410.4	7410.4	7410.4	7410.4	7410.4	7410.4	7410.4	7410.4	7410.4	7410.4	7410.4
2.5°	9299.4	9160.8	9165.1	9102.2	8872.2	8692.1	8504.9	8460.6	8169.1	7863.4	7569.0
5°	10907.0	10805.5	10781.2	10659.8	10339.7	10001.0	9638.1	9553.8	8983.6	8357.8	7741.9
7.5°	11732.9	11734.3	11714.3	11670.0	11469.9	11141.3	10698.3	10609.7	9833.8	8895.0	7921.9
10°	11492.8	11547.1	11658.6	11805.7	11958.6	11917.2	11584.3	11504.2	10661.2	9463.7	8122.0
12.5°	10932.7	10939.8	11064.1	11305.6	11745.7	12197.3	12203.0	12175.8	11451.4	10058.2	8342.0
15°	10654.0	10681.2	10726.9	10882.7	11299.9	12022.9	12540.2	12578.8	12175.8	10689.8	8576.4
17.5°	10836.9	10875.5	10836.9	10855.5	11097.0	11747.2	12598.8	12697.4	12808.8	11314.2	8797.9
20°	11332.8	11368.5	11299.9	11224.2	11271.3	11667.1	12557.4	12690.2	13304.7	11868.6	8983.6
22.5°	12001.5	12015.8	11911.5	11787.2	11752.9	11938.6	12591.7	12728.8	13701.9	12370.2	9100.8
25°	12737.4	12750.3	12620.2	12477.3	12395.9	12471.6	12873.1	12976.0	14052.0	12848.9	9168.0
27.5°	13539.0	13550.5	13387.6	13211.8	13117.5	13120.4	13337.5	13447.6	14425.0	13394.7	9222.3
30°	14386.4	14380.7	14230.6	13986.3	13866.2	13863.4	14006.3	14117.7	14965.1	14094.9	9296.6
32.5°	15338.0	15326.6	15113.7	14810.8	14675.0	14695.0	14822.2	14886.5	15635.3	14840.8	9429.4
35°	16591.2	16558.3	16236.8	15861.0	15611.0	15603.8	15711.0	15762.4	16489.7	15743.9	9650.9
37.5°	18217.3	18187.3	17751.5	17205.6	16854.1	16722.7	16849.8	16915.6	17708.6	16902.7	10006.7
40°	19820.6	19790.6	19531.9	19031.8	18490.2	18174.4	18274.5	18344.5	19230.4	18308.8	10455.4
42.5°	20926.5	20952.3	21042.3	21083.7	20576.5	19913.4	19959.2	20032.0	20829.4	19812.0	10968.4
45°	21218.0	21273.8	21782.5	22781.3	22971.3	22454.1	21975.4	22015.4	22454.1	21315.2	11481.4
47.5°	20342.1	20445.0	21426.7	23284.3	24893.2	25259.0	24353.1	24300.2	24013.0	22531.2	11845.8
50°	18351.6	18445.9	19717.7	22465.5	25476.2	27936.8	27202.4	27046.6	25380.5	23258.5	11974.4
52.5°	15470.9	15585.2	16618.4	19887.7	24377.4	29131.4	29900.2	29770.1	26383.6	23315.7	11995.8
55°	10925.5	11064.1	12157.3	15242.3	20895.1	28181.2	30856.1	30817.5	27216.7	23164.2	12041.5
57.5°	6140.1	6240.1	7419.0	9771.0	15303.7	24546.0	29857.3	30113.1	27719.6	22901.3	12110.1
60°	2726.4	2753.5	3363.7	4864.0	8959.3	18758.9	26998.0	27429.6	27288.1	22549.8	12225.8
62.5°	1511.8	1488.9	1488.9	2021.9	3893.8	11612.8	22015.4	22728.4	25446.2	22134.0	12231.6
65°	1184.6	1163.1	1101.7	1110.3	1483.2	5154.1	15245.2	16512.6	21948.2	20915.1	11820.0
67.5°	1004.5	986.0	924.5	900.2	921.7	1700.4	8376.3	9692.4	16654.1	17747.2	10238.2
70°	848.8	835.9	804.5	774.5	720.2	840.2	3205.1	4099.6	10262.5	11805.7	6988.9
72.5°	683.0	677.3	688.7	663.0	597.3	560.1	1096.0	1327.5	4609.7	5268.4	2879.3
75°	588.7	585.9	591.6	565.9	491.5	390.1	557.3	608.7	1300.3	1288.9	583.0
77.5°	383.0	387.2	490.1	478.7	423.0	260.1	288.6	311.5	394.4	295.8	177.2
80°	244.3	241.5	248.6	397.2	380.1	198.6	144.3	151.5	190.0	145.7	85.7
82.5°	148.6	145.7	162.9	185.8	191.5	138.6	88.6	90.0	118.6	94.3	45.7
85°	12.9	17.1	98.6	91.5	65.7	42.9	42.9	45.7	62.9	55.7	25.7
87.5°	0.0	0.0	17.1	25.7	14.3	15.7	15.7	17.1	24.3	24.3	12.9
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°	7410.4	7410.4	7410.4	7410.4	7410.4	7410.4	7410.4	7410.4	7410.4	7410.4	7410.4
2.5°	7416.1	7267.5	6967.4	6678.8	6434.4	6198.7	5930.0	5664.2	5539.9	5489.9	5438.5
5°	7429.0	7123.2	6504.4	5881.4	5235.6	4654.0	4158.2	3649.5	3395.1	3283.7	3232.2
7.5°	7446.1	6980.3	5980.0	4934.1	3893.8	3105.0	2416.3	1973.3	1781.9	1751.9	1677.6
10°	7449.0	6807.4	5371.3	3888.1	2610.6	1871.9	1440.4	1211.7	1127.4	1113.1	1088.8
12.5°	7454.7	6603.0	4695.4	2879.3	1740.4	1251.7	1041.7	966.0	943.1	941.7	941.7
15°	7471.8	6388.7	3993.8	2074.8	1250.3	991.7	914.5	884.5	875.9	880.2	878.8
17.5°	7471.8	6135.8	3305.1	1546.1	1010.2	891.6	848.8	828.8	825.9	830.2	831.6
20°	7417.5	5828.6	2673.5	1203.2	895.9	827.3	788.8	770.2	763.0	765.9	767.3
22.5°	7287.5	5451.3	2159.1	996.0	820.2	768.8	727.3	698.7	687.3	688.7	688.7
25°	7084.6	5004.1	1689.0	861.6	758.8	705.9	657.3	624.4	617.3	615.9	618.7
27.5°	6824.5	4509.7	1344.6	758.8	685.9	635.9	587.3	560.1	554.4	555.9	557.3
30°	6568.7	3996.7	1060.3	671.6	604.4	557.3	520.1	507.3	507.3	511.6	513.0
32.5°	6334.4	3503.7	838.8	595.9	531.6	488.7	467.3	465.8	473.0	475.8	477.3
35°	6132.9	3047.9	694.5	537.3	474.4	437.2	430.1	435.8	444.4	450.1	451.5
37.5°	5990.0	2640.6	607.3	488.7	430.1	400.1	398.7	410.1	421.5	434.4	437.2
40°	5930.0	2296.3	547.3	445.8	394.4	371.5	367.2	383.0	404.4	423.0	425.8
42.5°	5880.0	2014.8	495.8	404.4	365.8	332.9	331.5	351.5	377.2	395.8	400.1
45°	5837.1	1789.0	448.7	360.1	328.7	285.8	290.1	315.8	335.8	355.8	360.1
47.5°	5748.5	1603.2	397.2	312.9	271.5	244.3	252.9	275.8	291.5	321.5	325.8
50°	5589.9	1451.8	344.4	255.8	221.5	211.5	224.3	240.1	260.1	285.8	288.6
52.5°	5482.8	1337.5	298.6	214.3	182.9	185.8	198.6	204.3	215.8	225.8	222.9
55°	5421.3	1274.6	261.5	185.8	155.8	164.3	167.2	160.0	154.3	144.3	140.0
57.5°	5414.2	1217.4	232.9	161.5	137.2	141.5	131.5	107.2	87.2	75.7	72.9
60°	5402.8	1147.4	210.1	135.7	121.5	115.7	94.3	58.6	41.4	38.6	38.6
62.5°	5278.4	1038.8	192.9	114.3	102.9	87.2	54.3	27.1	22.9	24.3	24.3
65°	4882.6	887.4	175.8	92.9	81.4	62.9	27.1	15.7	8.6	10.0	10.0
67.5°	4151.0	707.3	157.2	71.4	61.4	40.0	15.7	7.1	0.0	0.0	0.0
70°	2779.3	438.7	132.9	50.0	40.0	24.3	11.4	1.4	0.0	0.0	0.0
72.5°	1066.0	237.2	107.2	30.0	25.7	17.1	7.1	0.0	0.0	0.0	0.0
75°	240.1	155.8	74.3	21.4	18.6	11.4	2.9	0.0	0.0	0.0	0.0
77.5°	91.5	112.9	42.9	14.3	12.9	7.1	0.0	0.0	0.0	0.0	0.0
80°	44.3	67.2	20.0	8.6	7.1	2.9	0.0	0.0	0.0	0.0	0.0
82.5°	22.9	25.7	8.6	4.3	2.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.9	12.9	4.3	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.1	4.3	1.4	1.4	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)