

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: P324762

Luminaire Tested: **GAN-SA8B-730-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324762
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-SA8B-730-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 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: 34144 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

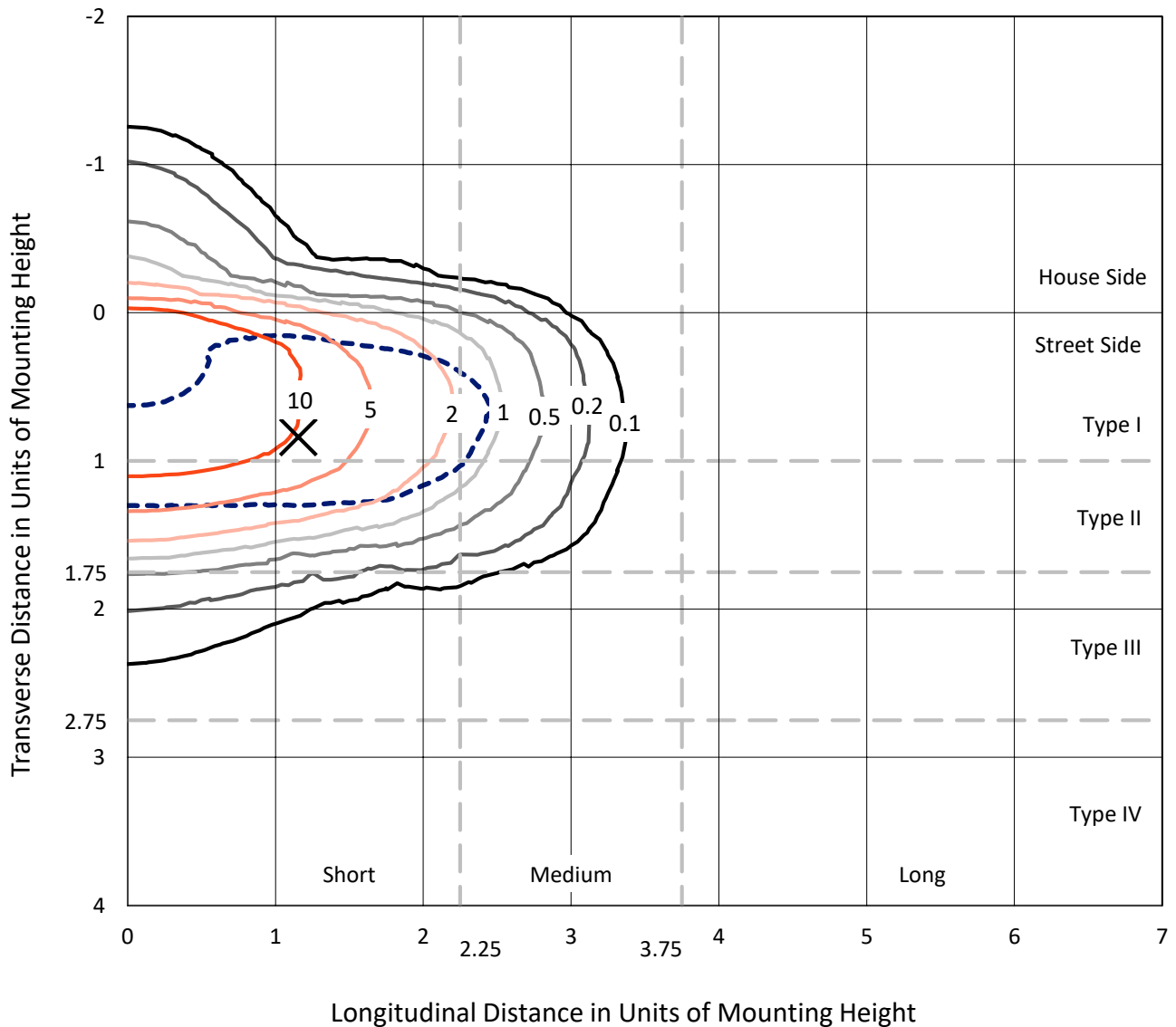
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

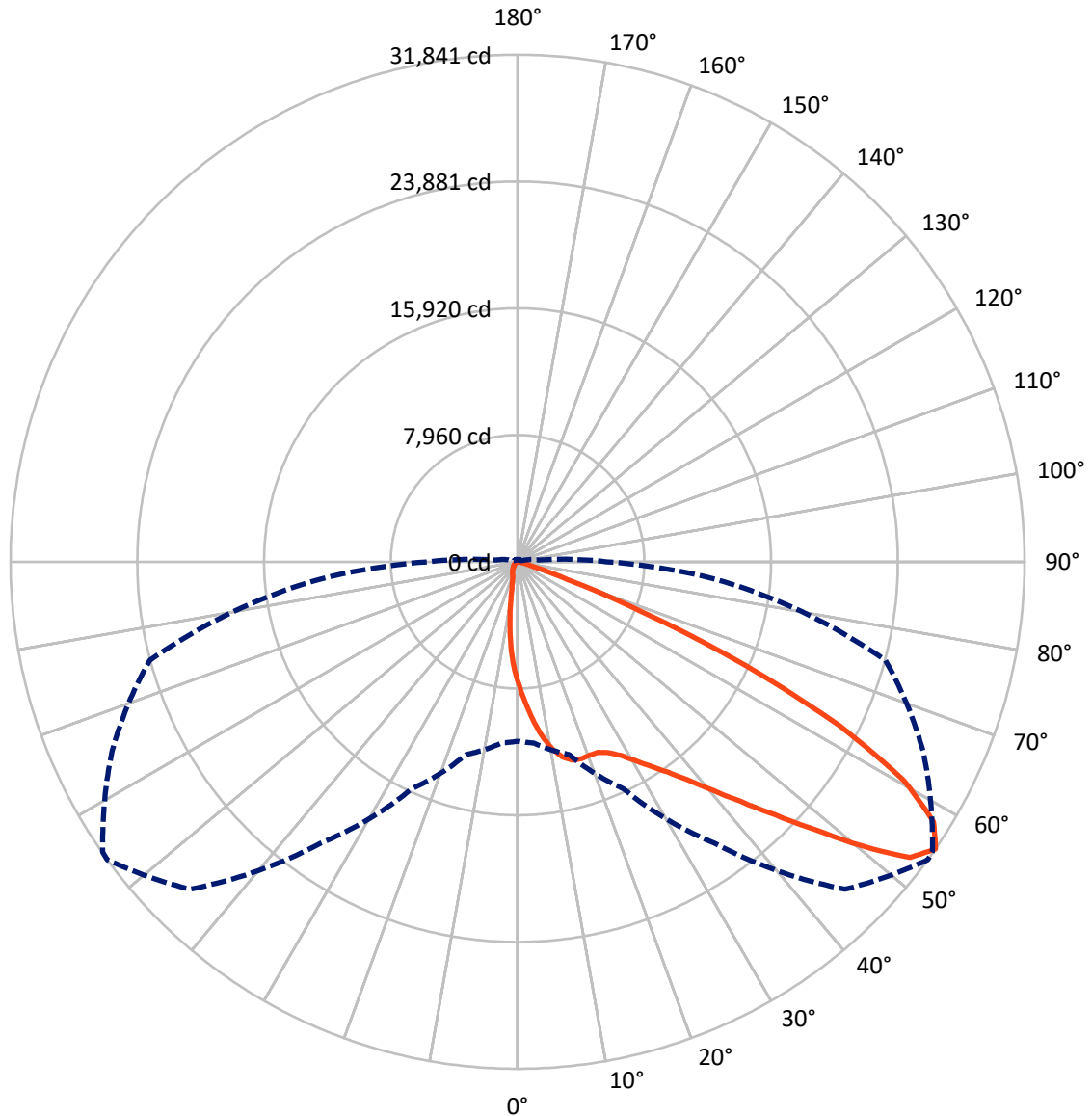
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.8 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	1703.5	0.0	1703.5
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	32440.5	0.0	32440.5
	% Fixture	95.0	0.0	95.0
Total	Lumens	34144.0	0.0	34144.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	704.2	2.1
10°-20°	1931.3	5.7
20°-30°	3297.3	9.7
30°-40°	5291.6	15.5
40°-50°	8456.0	24.8
50°-60°	9060.9	26.5
60°-70°	4652.1	13.6
70°-80°	704.7	2.1
80°-90°	45.9	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°	34144.0	100.0
0°-180°	34144.0	100.0

Coefficient of Utilization

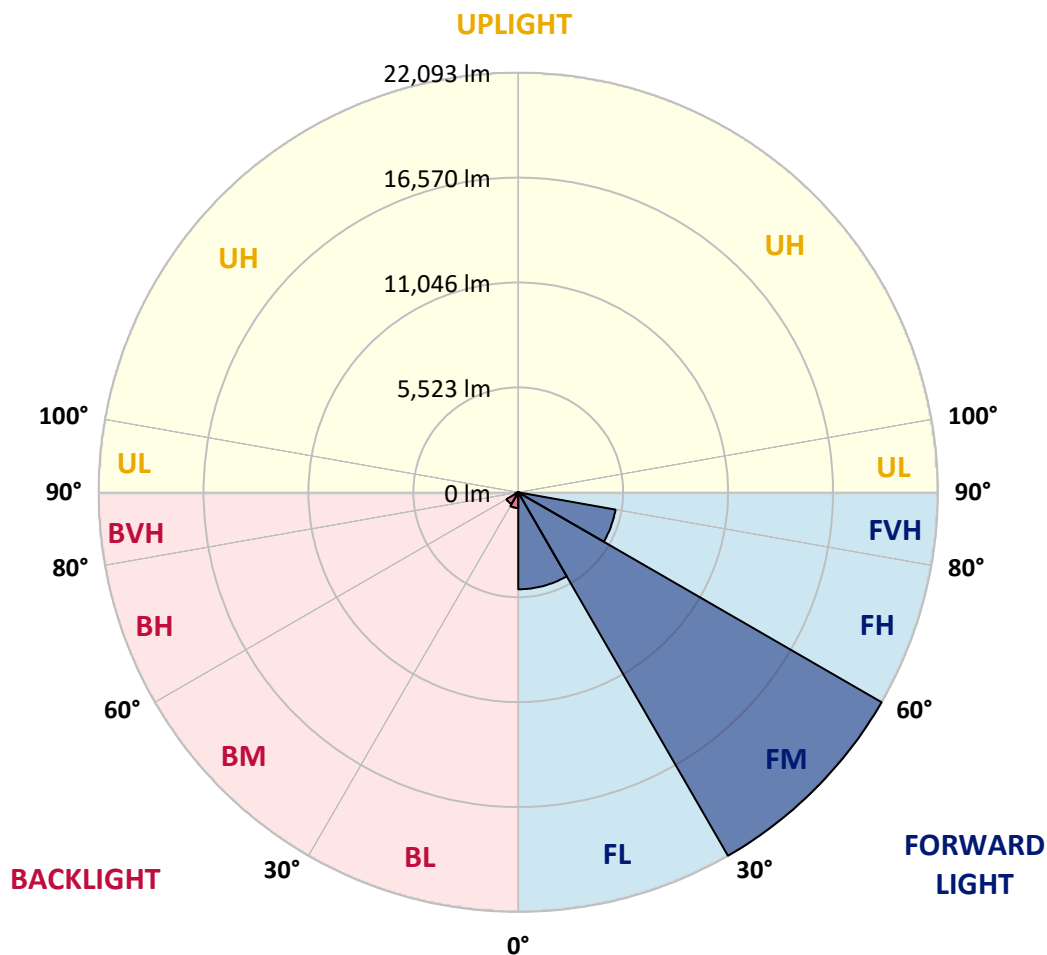


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5103.9	14.9			
FM (30°-60°)	22092.7	64.7			
FH (60°-80°)	5199.8	15.2			G3/7500
FVH (80°-90°)	44.0	0.1			G1/100
BL (0°-30°)	828.8	2.4	B2/1000		
BM (30°-60°)	715.9	2.1	B1/1000		
BH (60°-80°)	157.0	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°	7646.9	7646.9	7646.9	7646.9	7646.9	7646.9	7646.9	7646.9	7646.9	7646.9	7646.9
2.5°	9596.2	9453.2	9457.6	9392.7	9155.3	8969.5	8776.4	8730.7	8429.9	8114.3	7810.6
5°	11255.0	11150.4	11125.3	11000.0	10669.7	10320.2	9945.7	9858.7	9270.3	8624.5	7989.0
7.5°	12107.3	12108.8	12088.2	12042.4	11836.0	11496.9	11039.8	10948.3	10147.7	9178.9	8174.8
10°	11859.6	11915.6	12030.6	12182.5	12340.3	12297.5	11954.0	11871.4	11001.4	9765.8	8381.2
12.5°	11281.6	11289.0	11417.2	11666.4	12120.6	12586.5	12592.4	12564.4	11816.8	10379.2	8608.3
15°	10994.1	11022.1	11069.3	11230.0	11660.5	12406.7	12940.4	12980.2	12564.4	11030.9	8850.1
17.5°	11182.8	11222.6	11182.8	11202.0	11451.2	12122.1	13000.9	13102.6	13217.6	11675.3	9078.6
20°	11694.5	11731.3	11660.5	11582.4	11631.1	12039.5	12958.1	13095.3	13729.3	12247.4	9270.3
22.5°	12384.5	12399.3	12291.6	12163.4	12128.0	12319.7	12993.5	13135.1	14139.2	12765.0	9391.2
25°	13143.9	13157.2	13023.0	12875.6	12791.5	12869.7	13284.0	13390.2	14500.5	13258.9	9460.6
27.5°	13971.1	13982.9	13814.8	13633.5	13536.1	13539.1	13763.2	13876.8	14885.3	13822.2	9516.6
30°	14845.5	14839.6	14684.8	14432.6	14308.8	14305.8	14453.3	14568.3	15442.7	14544.7	9593.3
32.5°	15827.5	15815.8	15596.0	15283.4	15143.4	15164.0	15295.2	15361.6	16134.3	15314.4	9730.4
35°	17120.7	17086.8	16755.0	16367.2	16109.2	16101.8	16212.4	16265.5	17016.0	16246.3	9958.9
37.5°	18798.7	18767.8	18318.0	17754.8	17392.0	17256.4	17387.6	17455.4	18273.8	17442.2	10326.1
40°	20453.1	20422.2	20155.3	19639.2	19080.4	18754.5	18857.7	18929.9	19844.2	18893.1	10789.1
42.5°	21594.4	21621.0	21713.9	21756.6	21233.2	20549.0	20596.2	20671.4	21494.1	20444.3	11318.5
45°	21895.2	21952.7	22477.7	23508.3	23704.5	23170.7	22676.7	22718.0	23170.7	21995.5	11847.8
47.5°	20991.3	21097.5	22110.5	24027.4	25687.7	26065.2	25130.3	25075.8	24779.4	23250.3	12223.8
50°	18937.3	19034.6	20347.0	23182.5	26289.3	28828.4	28070.5	27909.8	26190.5	24000.8	12356.5
52.5°	15964.7	16082.6	17148.7	20522.4	25155.4	30061.1	30854.4	30720.2	27225.6	24059.8	12378.6
55°	11274.2	11417.2	12545.3	15728.8	21562.0	29080.6	31840.9	31801.1	28085.3	23903.5	12425.8
57.5°	6336.0	6439.2	7655.7	10082.8	15792.2	25329.4	30810.2	31074.1	28604.3	23632.2	12496.6
60°	2813.4	2841.4	3471.0	5019.3	9245.3	19357.6	27859.7	28305.0	28159.0	23269.5	12616.0
62.5°	1560.0	1536.5	1536.5	2086.5	4018.1	11983.5	22718.0	23453.8	26258.3	22840.4	12621.9
65°	1222.4	1200.3	1136.9	1145.7	1530.6	5318.6	15731.7	17039.6	22648.7	21582.6	12197.3
67.5°	1036.6	1017.4	954.0	929.0	951.1	1754.7	8643.7	10001.7	17185.6	18313.6	10565.0
70°	875.9	862.6	830.2	799.2	743.2	867.0	3307.4	4230.4	10590.0	12182.5	7211.9
72.5°	704.8	698.9	710.7	684.2	616.4	578.0	1131.0	1369.8	4756.8	5436.6	2971.2
75°	607.5	604.6	610.5	583.9	507.2	402.5	575.1	628.1	1341.8	1330.0	601.6
77.5°	395.2	399.6	505.8	494.0	436.5	268.4	297.9	321.4	407.0	305.2	182.8
80°	252.1	249.2	256.6	409.9	392.2	205.0	148.9	156.3	196.1	150.4	88.5
82.5°	153.4	150.4	168.1	191.7	197.6	143.0	91.4	92.9	122.4	97.3	47.2
85°	13.3	17.7	101.7	94.4	67.8	44.2	44.2	47.2	64.9	57.5	26.5
87.5°	0.0	0.0	17.7	26.5	14.7	16.2	16.2	17.7	25.1	25.1	13.3
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°	7646.9	7646.9	7646.9	7646.9	7646.9	7646.9	7646.9	7646.9	7646.9	7646.9	7646.9
2.5°	7652.8	7499.4	7189.8	6891.9	6639.8	6396.5	6119.3	5845.0	5716.7	5665.1	5612.0
5°	7666.1	7350.5	6712.0	6069.1	5402.7	4802.5	4290.9	3765.9	3503.5	3388.5	3335.4
7.5°	7683.7	7203.1	6170.9	5091.5	4018.1	3204.1	2493.4	2036.3	1838.7	1807.8	1731.1
10°	7686.7	7024.6	5542.7	4012.2	2694.0	1931.6	1486.3	1250.4	1163.4	1148.7	1123.6
12.5°	7692.6	6813.8	4845.3	2971.2	1796.0	1291.7	1074.9	996.8	973.2	971.7	971.7
15°	7710.3	6592.6	4121.3	2141.0	1290.2	1023.3	943.7	912.7	903.9	908.3	906.8
17.5°	7710.3	6331.6	3410.6	1595.4	1042.5	920.1	875.9	855.2	852.3	856.7	858.2
20°	7654.3	6014.6	2758.8	1241.5	924.5	853.7	813.9	794.8	787.4	790.3	791.8
22.5°	7520.1	5625.3	2228.0	1027.7	846.4	793.3	750.5	721.0	709.2	710.7	710.7
25°	7310.7	5163.8	1742.9	889.1	783.0	728.4	678.3	644.4	637.0	635.5	638.5
27.5°	7042.3	4653.6	1387.5	783.0	707.8	656.2	606.0	578.0	572.1	573.6	575.1
30°	6778.4	4124.2	1094.1	693.0	623.7	575.1	536.7	523.5	523.5	527.9	529.4
32.5°	6536.6	3615.5	865.5	614.9	548.5	504.3	482.2	480.7	488.1	491.0	492.5
35°	6328.7	3145.2	716.6	554.4	489.5	451.2	443.8	449.7	458.6	464.5	465.9
37.5°	6181.2	2724.9	626.7	504.3	443.8	412.9	411.4	423.2	435.0	448.3	451.2
40°	6119.3	2369.6	564.7	460.1	407.0	383.4	379.0	395.2	417.3	436.5	439.4
42.5°	6067.7	2079.1	511.7	417.3	377.5	343.6	342.1	362.7	389.3	408.4	412.9
45°	6023.4	1846.1	463.0	371.6	339.1	294.9	299.3	325.9	346.5	367.2	371.6
47.5°	5932.0	1654.4	409.9	322.9	280.2	252.1	261.0	284.6	300.8	331.8	336.2
50°	5768.3	1498.1	355.4	263.9	228.6	218.2	231.5	247.7	268.4	294.9	297.9
52.5°	5657.8	1380.2	308.2	221.2	188.7	191.7	205.0	210.9	222.7	233.0	230.0
55°	5594.3	1315.3	269.8	191.7	160.7	169.6	172.5	165.1	159.2	148.9	144.5
57.5°	5587.0	1256.3	240.3	166.6	141.6	146.0	135.7	110.6	89.9	78.1	75.2
60°	5575.2	1184.0	216.8	140.1	125.3	119.4	97.3	60.5	42.8	39.8	39.8
62.5°	5446.9	1072.0	199.1	118.0	106.2	89.9	56.0	28.0	23.6	25.1	25.1
65°	5038.5	915.7	181.4	95.8	84.0	64.9	28.0	16.2	8.8	10.3	10.3
67.5°	4283.5	729.9	162.2	73.7	63.4	41.3	16.2	7.4	0.0	0.0	0.0
70°	2868.0	452.7	137.1	51.6	41.3	25.1	11.8	1.5	0.0	0.0	0.0
72.5°	1100.0	244.8	110.6	31.0	26.5	17.7	7.4	0.0	0.0	0.0	0.0
75°	247.7	160.7	76.7	22.1	19.2	11.8	2.9	0.0	0.0	0.0	0.0
77.5°	94.4	116.5	44.2	14.7	13.3	7.4	0.0	0.0	0.0	0.0	0.0
80°	45.7	69.3	20.6	8.8	7.4	2.9	0.0	0.0	0.0	0.0	0.0
82.5°	23.6	26.5	8.8	4.4	2.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.3	13.3	4.4	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.4	4.4	1.5	1.5	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)