

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: P454369

Luminaire Tested: **GLAN-SA5C-727-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454369
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA5C-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1050mA 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: 24124 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

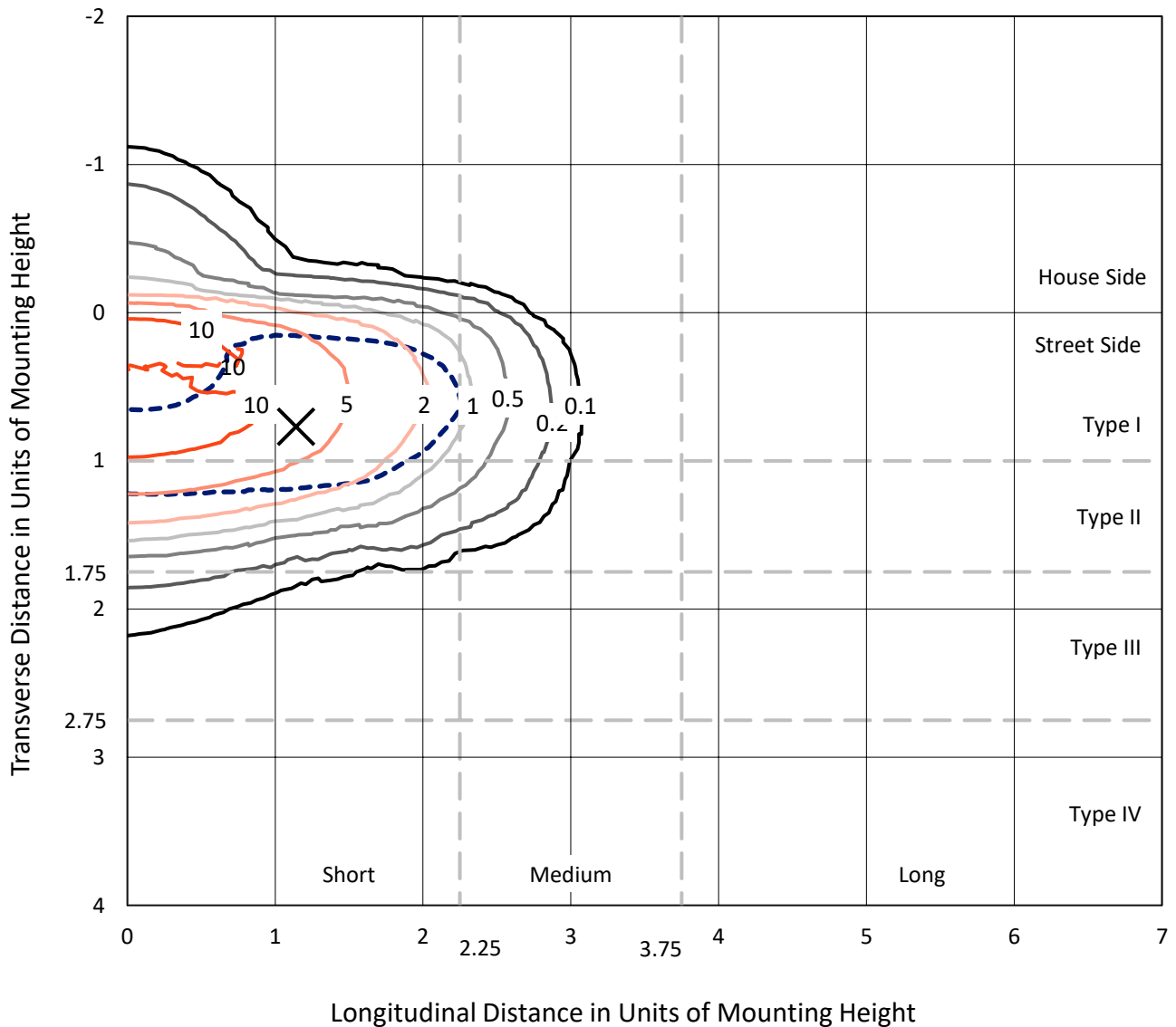
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

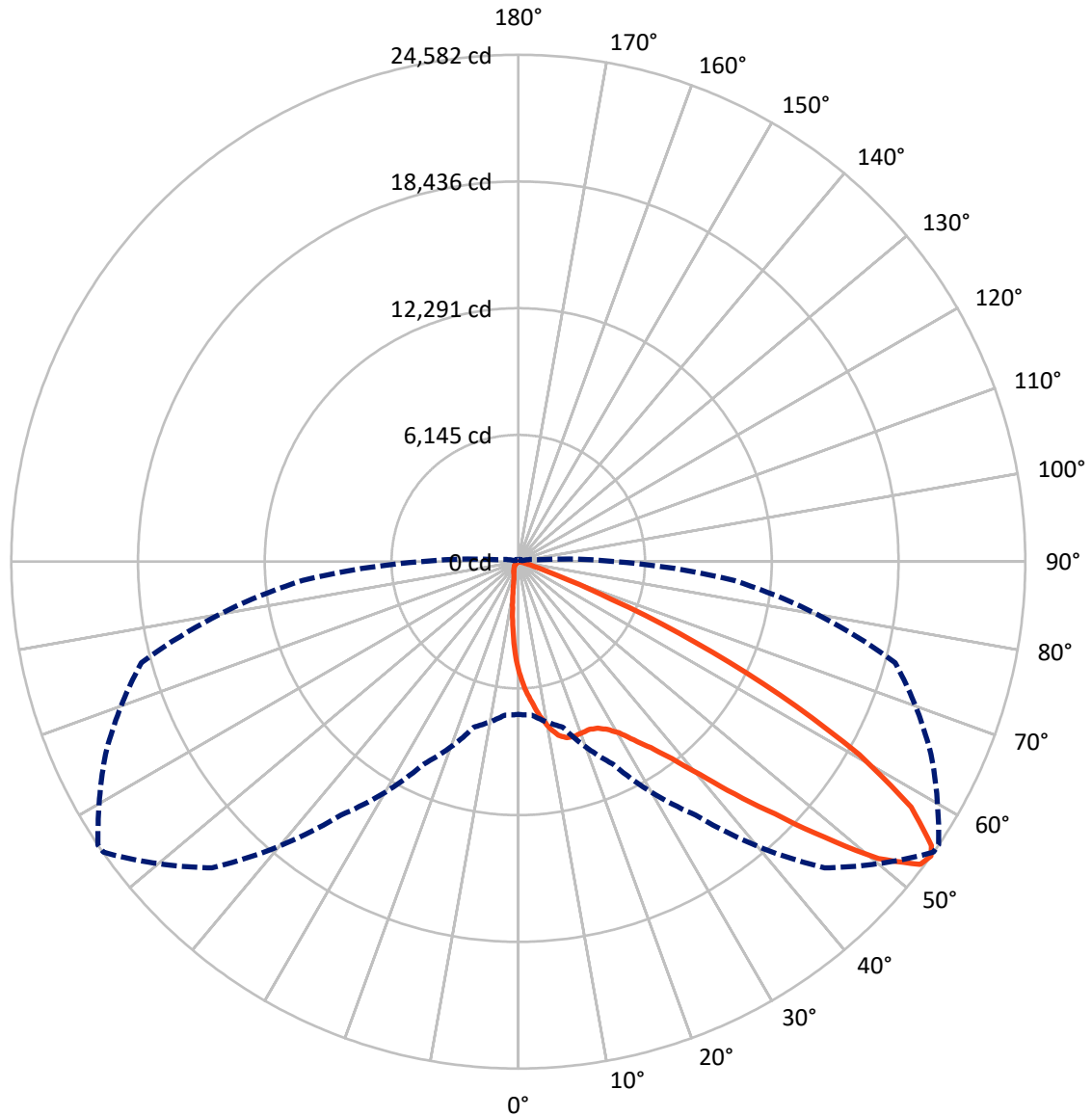
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1140.8	0.0	1140.8
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	22983.2	0.0	22983.2
	% Fixture	95.3	0.0	95.3
Total	Lumens	24124.0	0.0	24124.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	473.6	2.0
10°-20°	1280.3	5.3
20°-30°	2217.4	9.2
30°-40°	3827.6	15.9
40°-50°	6514.8	27.0
50°-60°	6447.2	26.7
60°-70°	2942.6	12.2
70°-80°	377.9	1.6
80°-90°	42.6	0.2
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°	24124.0	100.0
0°-180°	24124.0	100.0

Coefficient of Utilization



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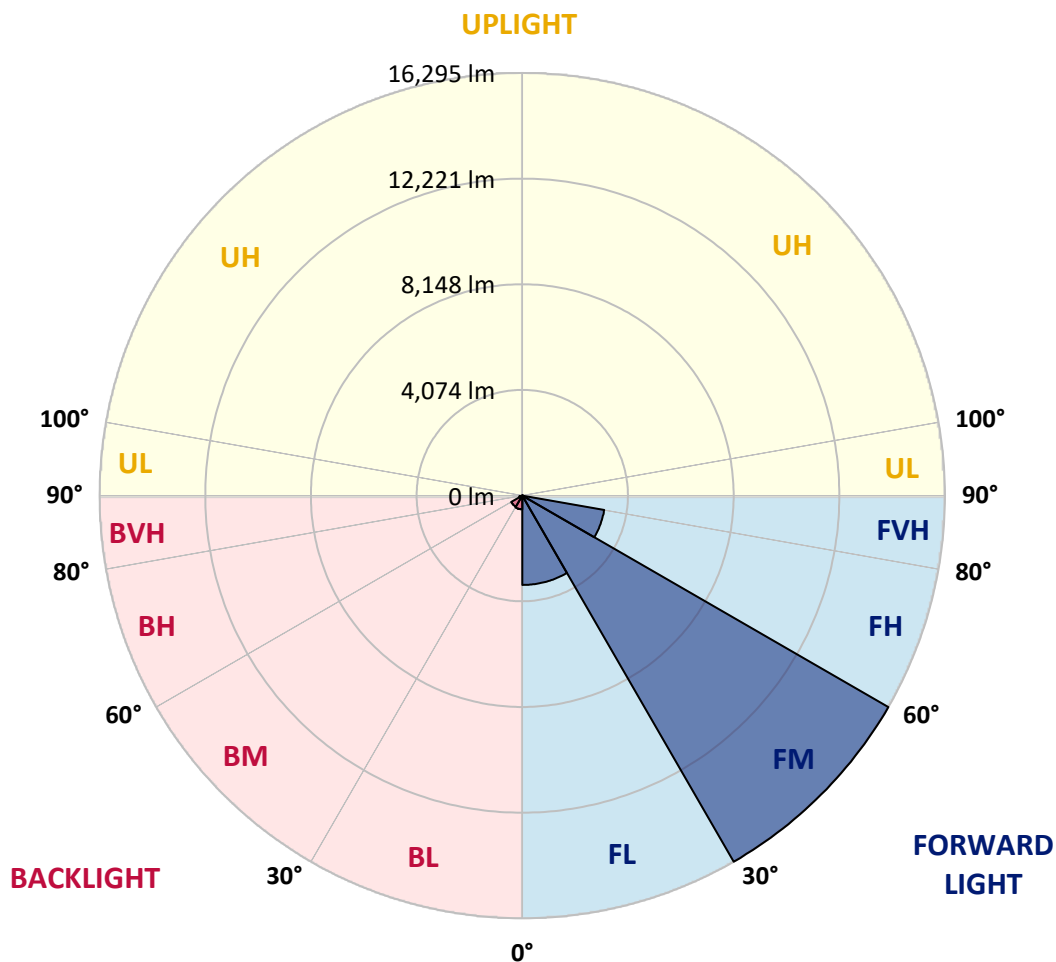
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3443.8	14.3			
FM	(30°-60°)	16295.1	67.5			
FH	(60°-80°)	3206.3	13.3			G2/5000
FVH	(80°-90°)	38.0	0.2			G1/100
BL	(0°-30°)	527.6	2.2	B2/1000		
BM	(30°-60°)	494.4	2.0	B1/1000		
BH	(60°-80°)	114.2	0.5	B1/500		G1/500
BVH	(80°-90°)	4.6	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5359.7	5359.7	5359.7	5359.7	5359.7	5359.7	5359.7	5359.7	5359.7	5359.7	5359.7
2.5°	6811.5	6764.3	6699.2	6648.7	6529.9	6359.0	6178.3	6178.3	6004.2	5761.7	5514.3
5°	7856.4	7825.5	7762.0	7631.8	7498.3	7259.1	6896.1	6832.6	6521.8	6082.3	5620.1
7.5°	8281.2	8295.8	8299.1	8264.9	8201.4	7965.4	7605.7	7561.8	7065.4	6476.2	5758.4
10°	7874.3	7945.9	8015.9	8157.5	8357.7	8414.6	8211.2	8165.6	7677.3	6874.9	5908.2
12.5°	7268.8	7307.9	7346.9	7569.9	7971.9	8432.6	8645.8	8644.1	8230.7	7272.1	6098.6
15°	6987.3	7021.4	7024.7	7124.0	7472.3	8142.8	8831.3	8855.7	8771.1	7762.0	6303.7
17.5°	7045.8	7073.5	7050.7	7075.1	7257.4	7823.8	8810.2	8891.5	9208.9	8232.4	6489.2
20°	7428.3	7482.0	7394.1	7325.8	7381.1	7739.2	8738.5	8852.5	9518.2	8691.3	6658.5
22.5°	8115.2	8144.5	8033.8	7846.6	7749.0	7916.6	8719.0	8831.3	9781.8	9067.3	6756.1
25°	8878.5	8868.7	8746.7	8536.7	8331.6	8274.7	8847.6	8948.5	9999.9	9405.9	6785.4
27.5°	9641.9	9671.1	9466.1	9205.7	8959.9	8811.8	9135.7	9210.5	10245.7	9791.6	6821.2
30°	10528.9	10481.7	10279.9	9982.0	9700.4	9493.7	9599.5	9620.7	10584.2	10302.7	6915.6
32.5°	11682.9	11552.6	11326.4	10805.6	10603.8	10253.8	10279.9	10305.9	10996.0	10808.8	7029.6
35°	13248.6	13242.1	12799.4	12097.9	11606.4	11171.8	11057.9	11079.0	11619.4	11560.8	7281.8
37.5°	15133.3	15159.4	14654.8	13948.5	13043.5	12353.4	12119.0	12122.3	12566.6	12599.2	7666.0
40°	16668.2	16736.5	16435.4	15958.5	15065.0	13985.9	13592.0	13556.2	13898.0	13857.3	8214.5
42.5°	17329.0	17392.4	17504.7	17670.8	17179.2	16288.9	15359.6	15408.4	15512.6	15227.7	8829.7
45°	17005.1	17106.0	17547.1	18572.4	19034.7	18735.2	17626.8	17455.9	17014.8	16717.0	9448.2
47.5°	15655.8	15901.6	16638.9	18346.2	19964.0	20976.4	20185.4	19959.2	18518.7	17804.2	9842.0
50°	13437.4	13452.0	14479.1	16661.7	19482.3	22390.8	22797.7	22628.4	19920.1	18414.6	10040.6
52.5°	9741.1	10061.8	11002.5	13530.2	17395.7	22175.9	24462.7	24392.7	21365.4	18727.1	10327.1
54°	7405.5	7467.4	8304.0	10812.1	14998.3	20995.9	24565.2	24581.5	22083.2	18915.9	10496.3
55°	6070.9	5922.8	6801.7	9210.5	13362.5	19952.6	24230.0	24308.1	22405.4	19013.5	10621.7
57.5°	2877.6	2879.2	3551.4	4858.4	8369.1	15493.0	22180.8	22457.5	22441.2	19181.2	11007.4
60°	1456.7	1466.5	1614.6	2242.8	4134.1	10299.4	18339.7	18998.9	20714.4	19205.6	11134.4
62.5°	1018.9	1007.5	983.1	1079.1	1739.9	5234.3	13653.9	14226.8	17599.1	18276.2	10730.7
65°	872.4	848.0	779.6	765.0	878.9	2084.9	8504.2	9438.4	13437.4	15825.1	9581.6
67.5°	745.4	735.7	673.8	636.4	621.7	908.2	4388.0	4879.5	9184.5	11375.2	7257.4
70°	633.1	628.3	590.8	543.6	502.9	543.6	1627.6	2016.6	5118.8	6124.6	3424.5
72.5°	514.3	519.2	525.7	465.5	423.2	385.7	695.0	808.9	2141.9	2189.1	1197.9
75°	450.8	446.0	446.0	405.3	353.2	286.5	382.5	411.8	655.9	608.7	278.3
77.5°	317.4	306.0	358.1	333.7	294.6	203.4	218.1	231.1	271.8	232.7	130.2
80°	219.7	219.7	229.5	299.5	265.3	148.1	133.5	143.2	161.1	138.3	74.9
82.5°	123.7	127.0	149.7	159.5	154.6	99.3	87.9	89.5	107.4	94.4	47.2
85°	14.6	24.4	86.3	84.6	63.5	43.9	48.8	50.5	66.7	58.6	27.7
87.5°	1.6	3.3	17.9	22.8	16.3	17.9	17.9	17.9	22.8	26.0	19.5
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°	5359.7	5359.7	5359.7	5359.7	5359.7	5359.7	5359.7	5359.7	5359.7	5359.7	5359.7
2.5°	5380.8	5257.1	4962.5	4620.7	4402.6	4047.8	3748.3	3531.9	3478.2	3374.0	3404.9
5°	5374.3	5117.1	4516.6	3881.8	3204.7	2700.2	2324.2	2028.0	1897.8	1811.5	1751.3
7.5°	5377.6	4975.5	4012.0	3001.3	2192.4	1697.6	1349.3	1168.6	1048.2	997.7	1004.2
10°	5387.3	4816.0	3426.1	2223.3	1479.5	1097.0	883.8	797.5	756.8	750.3	748.7
12.5°	5410.1	4641.9	2866.2	1650.4	1035.1	797.5	716.1	686.8	673.8	673.8	668.9
15°	5434.5	4449.8	2400.7	1227.2	797.5	685.2	647.8	633.1	625.0	625.0	623.4
17.5°	5434.5	4228.5	1966.1	952.1	686.8	629.9	600.6	581.1	574.5	574.5	572.9
20°	5400.3	3971.3	1580.4	766.6	623.4	577.8	548.5	527.3	519.2	515.9	514.3
22.5°	5281.5	3627.9	1258.1	659.2	571.3	532.2	494.8	470.4	463.9	460.6	462.2
25°	5069.9	3240.5	996.1	579.4	524.1	476.9	444.3	426.4	419.9	419.9	421.5
27.5°	4851.9	2835.3	789.4	519.2	467.1	424.8	398.8	387.4	385.7	390.6	392.2
30°	4650.0	2428.4	639.6	470.4	416.7	380.9	363.0	359.7	359.7	361.3	363.0
32.5°	4425.4	2071.9	535.5	428.1	376.0	345.0	335.3	335.3	338.5	338.5	341.8
35°	4283.8	1765.9	470.4	387.4	345.0	319.0	312.5	314.1	319.0	325.5	328.8
37.5°	4207.3	1521.8	428.1	354.8	315.8	297.8	291.3	294.6	306.0	317.4	319.0
40°	4213.8	1337.9	393.9	327.1	293.0	273.4	268.6	278.3	289.7	301.1	302.7
42.5°	4285.4	1201.2	361.3	294.6	273.4	245.8	244.1	253.9	258.8	270.2	271.8
45°	4370.1	1101.9	327.1	260.4	237.6	213.2	214.8	223.0	229.5	247.4	250.6
47.5°	4396.1	1033.5	288.1	221.4	195.3	187.2	188.8	193.7	206.7	223.0	224.6
50°	4425.4	991.2	250.6	187.2	166.0	164.4	166.0	169.3	177.4	183.9	182.3
52.5°	4550.7	989.6	219.7	162.8	141.6	144.9	146.5	144.9	138.3	128.6	125.3
54°	4667.9	994.5	205.1	151.4	130.2	135.1	133.5	125.3	109.0	99.3	94.4
55°	4762.3	999.3	196.9	143.2	123.7	125.3	127.0	110.7	89.5	79.8	76.5
57.5°	4947.9	987.9	177.4	125.3	109.0	102.5	100.9	73.2	48.8	42.3	39.1
60°	4855.1	891.9	161.1	107.4	92.8	83.0	68.4	40.7	24.4	17.9	17.9
62.5°	4490.5	756.8	143.2	87.9	76.5	63.5	35.8	22.8	11.4	6.5	4.9
65°	4016.9	636.4	128.6	70.0	60.2	40.7	19.5	14.6	4.9	0.0	0.0
67.5°	2986.6	472.0	109.0	55.3	45.6	26.0	13.0	8.1	1.6	0.0	0.0
70°	1383.5	288.1	92.8	42.3	32.6	19.5	9.8	4.9	0.0	0.0	0.0
72.5°	397.1	180.7	76.5	30.9	22.8	16.3	8.1	3.3	1.6	0.0	0.0
75°	138.3	144.9	57.0	22.8	17.9	11.4	6.5	3.3	1.6	0.0	0.0
77.5°	83.0	117.2	35.8	19.5	14.6	9.8	6.5	3.3	1.6	1.6	0.0
80°	47.2	78.1	22.8	16.3	13.0	8.1	4.9	3.3	1.6	1.6	0.0
82.5°	26.0	37.4	17.9	14.6	11.4	8.1	4.9	3.3	1.6	1.6	1.6
85°	21.2	19.5	14.6	13.0	9.8	6.5	4.9	1.6	0.0	0.0	0.0
87.5°	16.3	13.0	13.0	13.0	9.8	6.5	4.9	1.6	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)