

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: P321312

Luminaire Tested: **GAN-SA8A-750-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321312
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8A-750-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30146 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

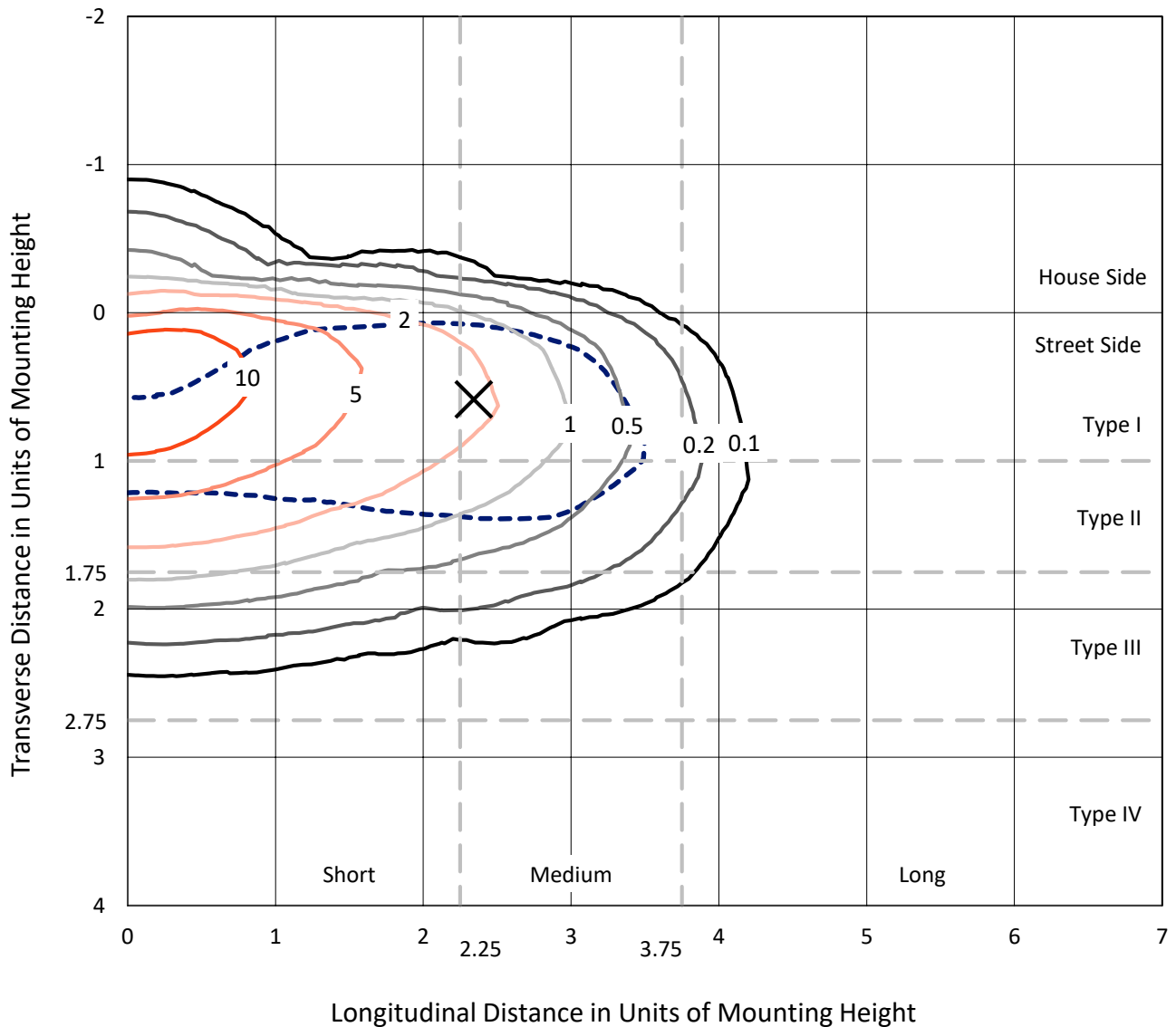
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

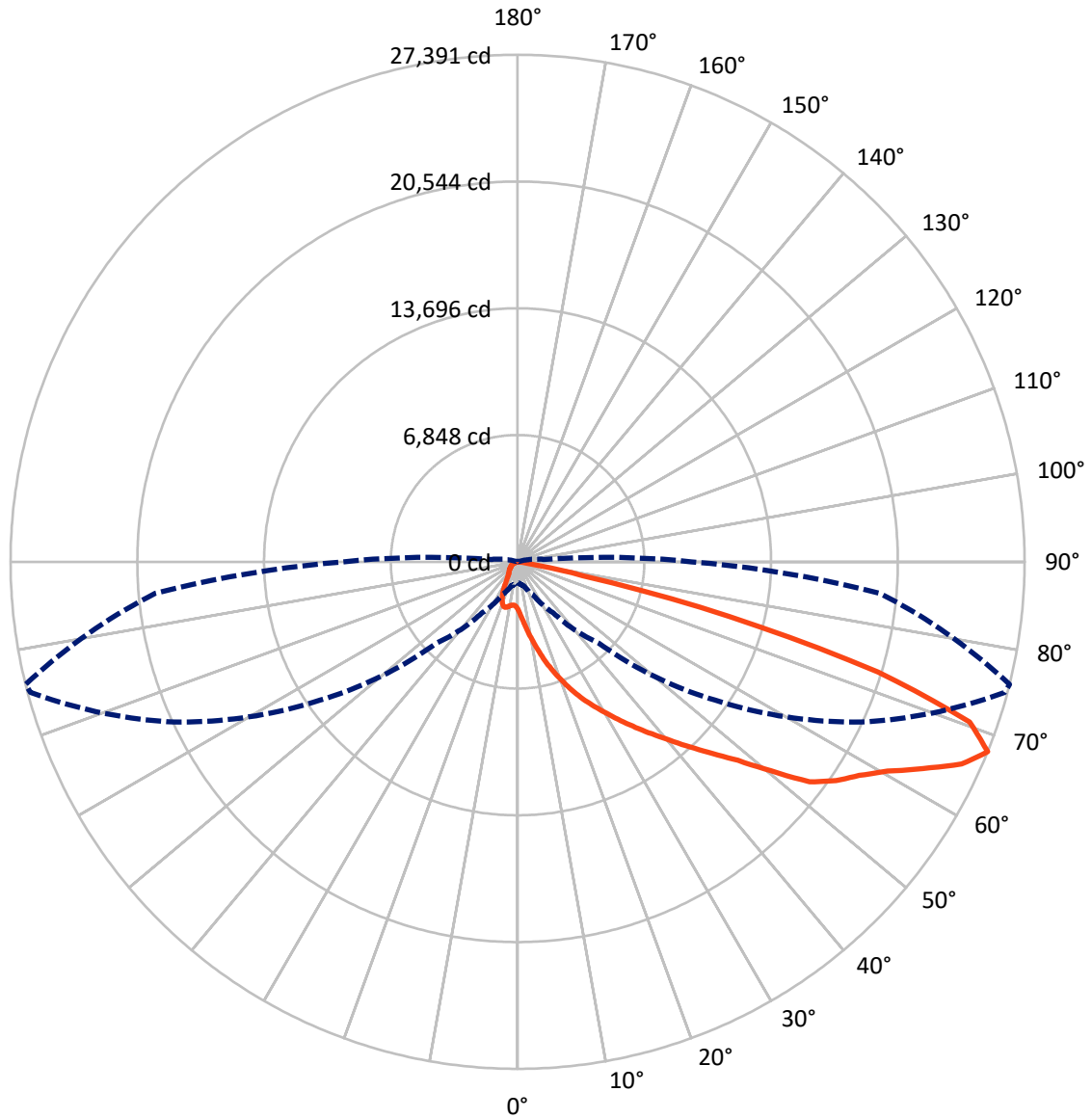
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1497.0	0.0	1497.0
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	28649.0	0.0	28649.0
	% Fixture	95.0	0.0	95.0
Total	Lumens	30146.0	0.0	30146.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.0	1.1
10°-20°	1260.6	4.2
20°-30°	2564.8	8.5
30°-40°	4451.7	14.8
40°-50°	6289.7	20.9
50°-60°	7132.8	23.7
60°-70°	5916.0	19.6
70°-80°	2142.9	7.1
80°-90°	69.5	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°	30146.0	100.0
0°-180°	30146.0	100.0

Coefficient of Utilization

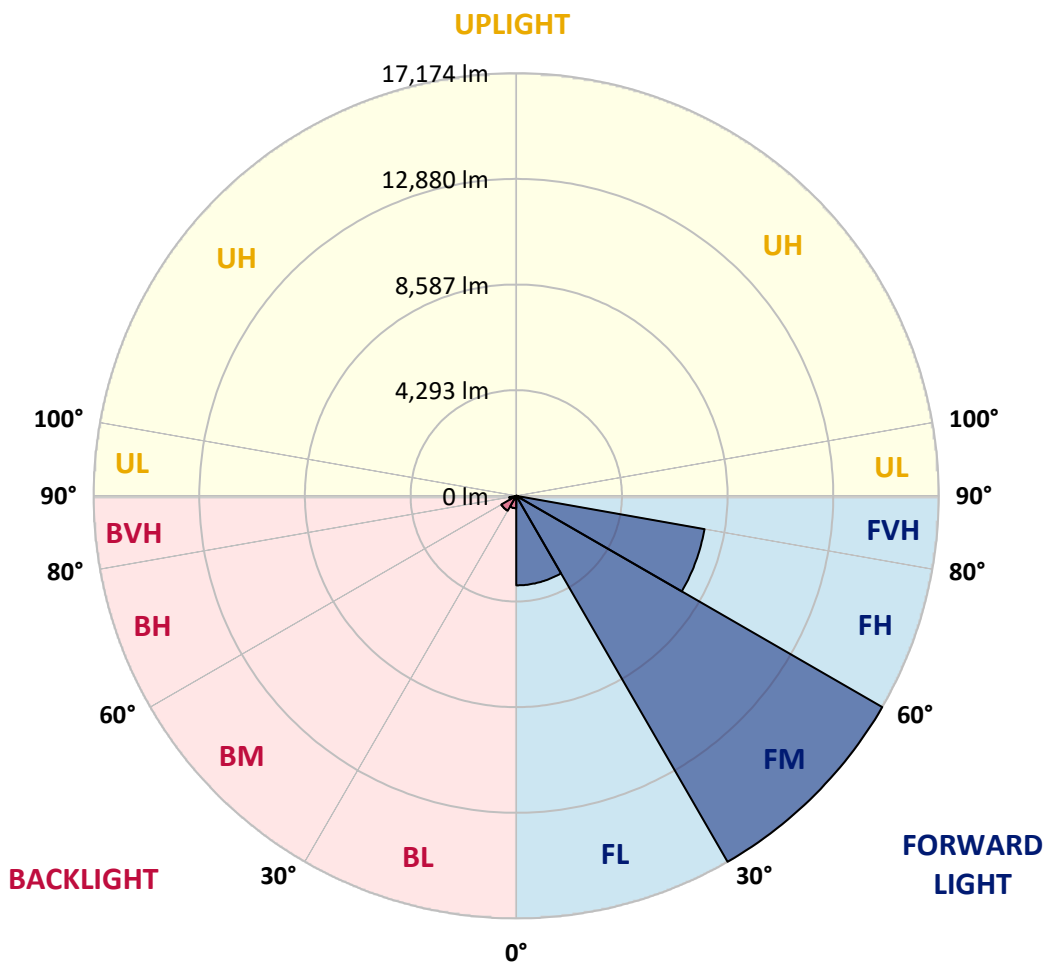


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3638.5	12.1			
FM (30°-60°)	17173.6	57.0			
FH (60°-80°)	7769.6	25.8			G4/12000
FVH (80°-90°)	67.3	0.2			G1/100
BL (0°-30°)	504.9	1.7	B2/1000		
BM (30°-60°)	700.6	2.3	B1/1000		
BH (60°-80°)	289.3	1.0	B1/500		G1/500
BVH (80°-90°)	2.2	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-G4
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2557.3	2557.3	2557.3	2557.3	2557.3	2557.3	2557.3	2557.3	2557.3	2557.3	2557.3
2.5°	3817.4	3731.5	3751.3	3695.9	3595.5	3389.4	3213.7	3047.3	2853.1	2846.5	2686.7
5°	5147.5	5074.9	5065.6	4953.4	4771.1	4421.0	4080.2	3691.9	3258.6	3226.9	2887.5
7.5°	6354.8	6296.7	6275.6	6142.2	5802.7	5461.9	5018.1	4447.5	3769.8	3711.7	3158.3
10°	7282.1	7254.4	7259.6	7164.5	6873.9	6556.9	5974.4	5246.6	4349.7	4259.9	3483.2
12.5°	7984.8	7991.4	8039.0	7980.9	7818.4	7583.3	6961.1	6098.6	4991.7	4868.8	3854.4
15°	8501.3	8534.3	8621.5	8694.1	8682.2	8478.8	7908.2	6963.8	5673.2	5537.2	4267.8
17.5°	8835.5	8872.5	8999.3	9160.4	9308.4	9260.8	8822.3	7798.6	6362.8	6205.6	4710.3
20°	9128.7	9172.3	9308.4	9521.0	9797.1	9856.5	9568.6	8608.3	7050.9	6859.4	5167.3
22.5°	9764.1	9762.7	9846.0	9970.1	10233.0	10386.2	10203.9	9359.9	7731.2	7531.7	5633.6
25°	10913.2	10869.6	10840.6	10742.8	10801.0	10896.1	10794.4	10062.6	8415.4	8213.3	6106.5
27.5°	12279.0	12305.5	12070.3	11807.5	11604.1	11506.3	11339.9	10713.8	9073.2	8851.3	6568.8
30°	13720.1	13728.1	13450.7	13115.2	12667.4	12296.2	12008.3	11335.9	9749.5	9507.8	7017.9
32.5°	15019.9	14968.4	14693.6	14236.6	13671.3	13253.9	12655.5	12030.7	10465.5	10231.7	7517.2
35°	16050.2	15989.4	15655.3	15239.2	14652.7	14232.7	13512.8	12724.2	11218.4	10989.9	8017.8
37.5°	16803.1	16731.8	16388.4	15960.4	15454.5	15210.1	14507.4	13478.4	12040.0	11794.3	8544.9
40°	17064.7	17002.6	16787.3	16474.2	16067.4	16011.9	15562.8	14346.2	12934.2	12672.7	9141.9
42.5°	16908.8	16848.0	16771.4	16665.7	16496.7	16549.5	16558.7	15335.6	13927.5	13669.9	9801.0
45°	16290.6	16236.4	16315.7	16470.2	16680.3	16941.8	17467.5	16398.9	15037.1	14762.3	10563.2
47.5°	15380.5	15340.9	15560.2	15945.9	16560.1	17281.3	18298.4	17516.4	16282.7	16027.7	11514.2
50°	14086.0	14079.4	14518.0	15222.0	16166.4	17445.1	19156.9	18787.1	18013.1	17744.9	12836.5
52.5°	12070.3	12083.6	12946.1	14072.8	15475.6	17334.1	19709.1	20419.7	20026.1	19747.4	13981.7
55°	10151.1	10230.3	10841.9	12466.6	14416.3	16922.0	19899.3	21181.9	21137.0	20872.8	14618.4
57.5°	8271.4	8415.4	9004.5	10522.3	12869.5	15972.3	19794.9	21512.1	21963.9	21761.8	15458.4
60°	6234.6	6300.7	6979.6	8398.3	10884.2	14239.3	19038.1	21691.7	23094.5	22954.5	16677.6
62.5°	3966.6	4131.8	4734.1	6102.5	8474.9	11832.6	17762.1	21689.1	24509.2	24585.8	18250.8
65°	2089.7	2282.5	2602.2	3781.7	5823.8	9144.6	15842.8	21485.7	26244.9	26351.9	19480.6
67.5°	1126.7	1182.2	1351.3	1962.9	3377.5	6195.0	13022.7	20481.8	27250.1	27391.4	19652.3
70°	824.2	854.6	918.0	1085.8	1700.0	3598.1	9502.5	18205.9	25954.3	25901.4	17460.9
72.5°	632.7	680.3	727.8	795.2	977.5	1920.6	5916.3	14256.4	20709.0	20360.3	13051.8
75°	499.3	507.2	574.6	635.4	733.1	1093.7	2627.3	8303.1	12639.7	11814.1	6768.3
77.5°	398.9	404.2	443.8	496.7	589.1	718.6	813.7	3266.6	4035.3	3600.8	1468.8
80°	236.4	249.6	330.2	383.1	488.7	453.1	297.2	709.3	630.1	570.6	247.0
82.5°	132.1	142.7	186.2	302.5	340.8	216.6	147.9	191.5	147.9	144.0	70.0
85°	0.0	6.6	120.2	187.6	138.7	47.6	62.1	63.4	43.6	40.9	27.7
87.5°	0.0	0.0	37.0	35.7	5.3	7.9	14.5	21.1	17.2	17.2	14.5
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°	2557.3	2557.3	2557.3	2557.3	2557.3	2557.3	2557.3	2557.3	2557.3	2557.3	2557.3
2.5°	2607.4	2536.1	2401.4	2269.3	2158.3	2067.2	1985.3	1952.3	1925.9	1921.9	1900.8
5°	2723.7	2579.7	2322.1	2110.8	1969.5	1869.1	1783.2	1730.4	1689.4	1673.6	1659.0
7.5°	2899.4	2681.4	2311.6	2068.5	1899.4	1730.4	1571.9	1400.1	1293.2	1252.2	1228.4
10°	3113.4	2816.1	2351.2	2056.6	1760.8	1404.1	1141.3	923.3	834.8	805.7	797.8
12.5°	3363.0	2983.9	2419.9	1982.7	1464.9	997.3	787.3	713.3	693.5	684.2	684.2
15°	3649.6	3167.5	2468.8	1768.7	1083.1	754.2	681.6	647.2	626.1	614.2	615.5
17.5°	3942.9	3347.1	2445.0	1458.3	799.1	671.0	616.9	579.9	550.8	538.9	536.3
20°	4238.8	3513.6	2312.9	1085.8	676.3	608.9	548.2	507.2	478.2	466.3	463.6
22.5°	4545.2	3654.9	2080.4	796.5	607.6	540.2	480.8	439.9	412.1	401.6	396.3
25°	4843.7	3769.8	1755.5	644.6	542.9	475.5	418.7	380.4	355.3	344.8	343.4
27.5°	5122.4	3842.5	1379.0	569.3	486.1	417.4	365.9	331.5	310.4	302.5	301.2
30°	5373.4	3849.1	1019.7	513.8	435.9	367.2	319.7	289.3	270.8	262.9	260.2
32.5°	5627.0	3793.6	742.3	463.6	389.7	323.6	277.4	253.6	240.4	233.8	233.8
35°	5866.1	3665.5	578.6	420.0	344.8	281.4	244.4	227.2	219.3	212.7	212.7
37.5°	6099.9	3481.9	491.4	381.7	302.5	245.7	215.3	204.7	198.1	191.5	191.5
40°	6337.7	3250.7	446.5	346.1	268.1	217.9	191.5	182.3	175.7	170.4	169.1
42.5°	6629.6	2983.9	417.4	313.1	237.8	192.9	169.1	158.5	153.2	147.9	145.3
45°	6967.7	2754.1	393.6	280.0	212.7	171.7	146.6	136.1	128.1	121.5	120.2
47.5°	7455.1	2587.6	361.9	244.4	188.9	149.3	126.8	114.9	103.0	96.4	95.1
50°	8077.3	2450.3	321.0	212.7	165.1	126.8	105.7	91.1	80.6	74.0	74.0
52.5°	8386.4	2270.6	284.0	184.9	138.7	107.0	85.9	68.7	63.4	56.8	56.8
55°	8510.5	2133.2	247.0	157.2	114.9	88.5	67.4	52.8	48.9	44.9	43.6
57.5°	8859.2	2093.6	215.3	133.4	95.1	70.0	51.5	39.6	37.0	31.7	31.7
60°	9420.6	2113.4	186.2	113.6	76.6	54.2	38.3	30.4	27.7	22.5	22.5
62.5°	10026.9	2088.3	157.2	97.7	59.4	39.6	26.4	22.5	22.5	13.2	11.9
65°	10143.2	1859.8	134.7	80.6	46.2	29.1	17.2	14.5	19.8	2.6	0.0
67.5°	9414.0	1442.4	116.2	62.1	34.3	22.5	13.2	6.6	17.2	0.0	0.0
70°	7527.8	916.7	93.8	44.9	26.4	18.5	10.6	2.6	13.2	0.0	0.0
72.5°	5323.2	532.3	74.0	31.7	22.5	14.5	7.9	0.0	7.9	0.0	0.0
75°	2692.0	284.0	46.2	23.8	17.2	10.6	5.3	0.0	1.3	0.0	0.0
77.5°	582.5	132.1	29.1	17.2	11.9	6.6	2.6	0.0	0.0	0.0	0.0
80°	126.8	58.1	18.5	10.6	6.6	4.0	0.0	0.0	0.0	0.0	0.0
82.5°	46.2	30.4	9.2	5.3	2.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	25.1	15.9	5.3	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.2	5.3	1.3	1.3	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)