

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: P321267

Luminaire Tested: **GAN-SA3A-740-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321267
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-SA3A-740-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 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: 11485 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

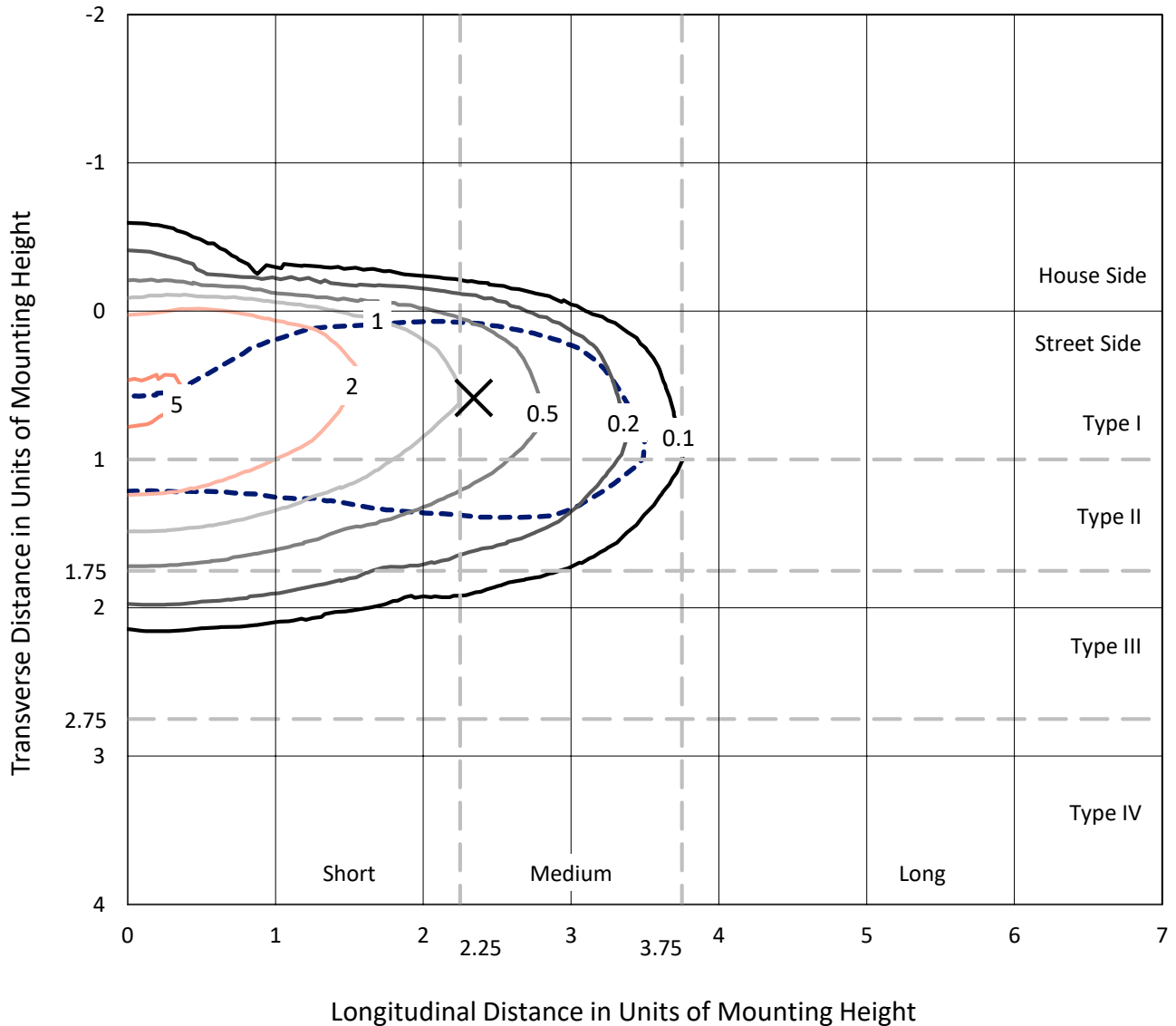
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

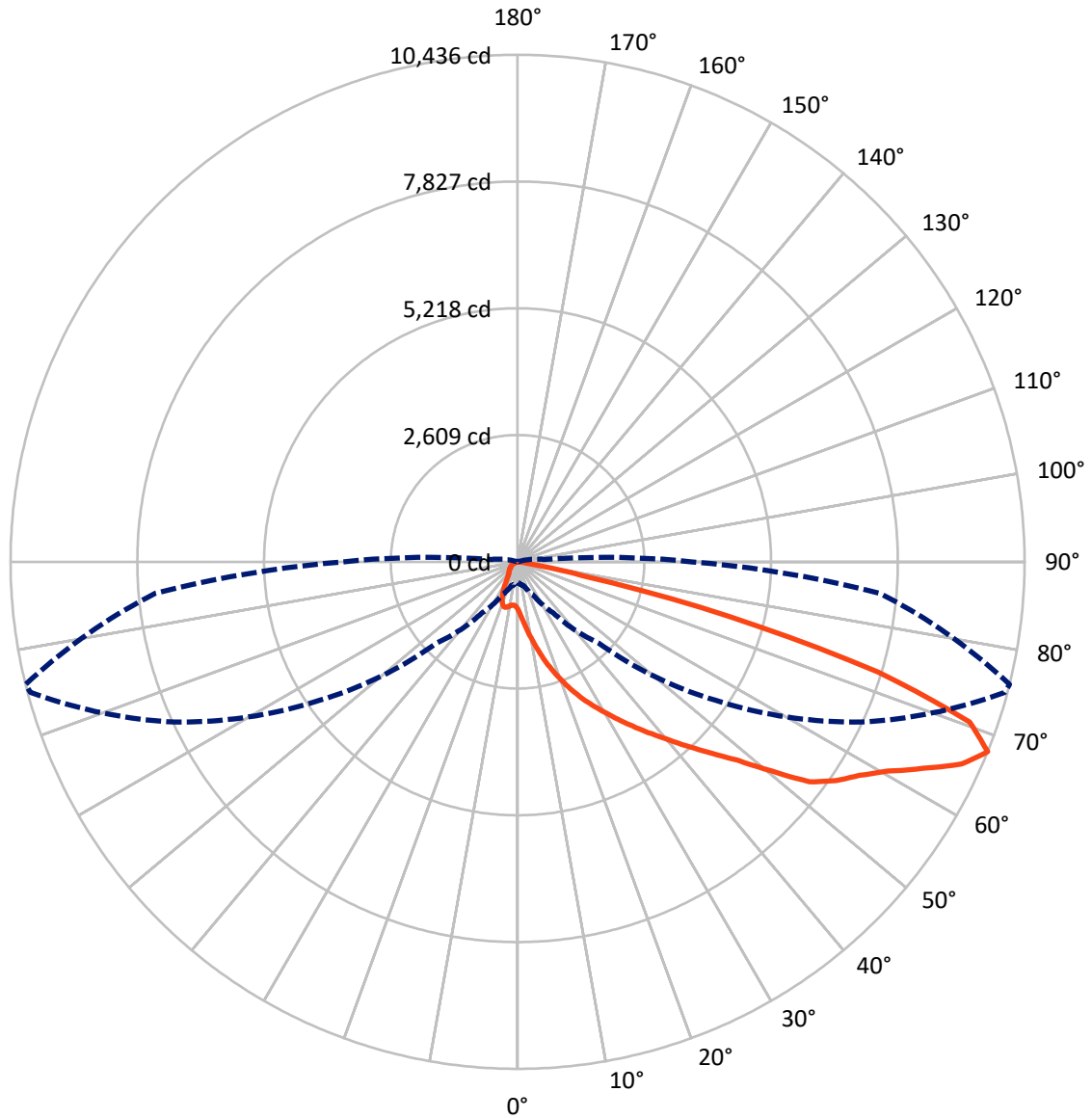
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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	570.3	0.0	570.3
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	10914.7	0.0	10914.7
	% Fixture	95.0	0.0	95.0
Total	Lumens	11485.0	0.0	11485.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.1	1.1
10°-20°	480.2	4.2
20°-30°	977.1	8.5
30°-40°	1696.0	14.8
40°-50°	2396.2	20.9
50°-60°	2717.5	23.7
60°-70°	2253.9	19.6
70°-80°	816.4	7.1
80°-90°	26.5	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°	11485.0	100.0
0°-180°	11485.0	100.0

Coefficient of Utilization

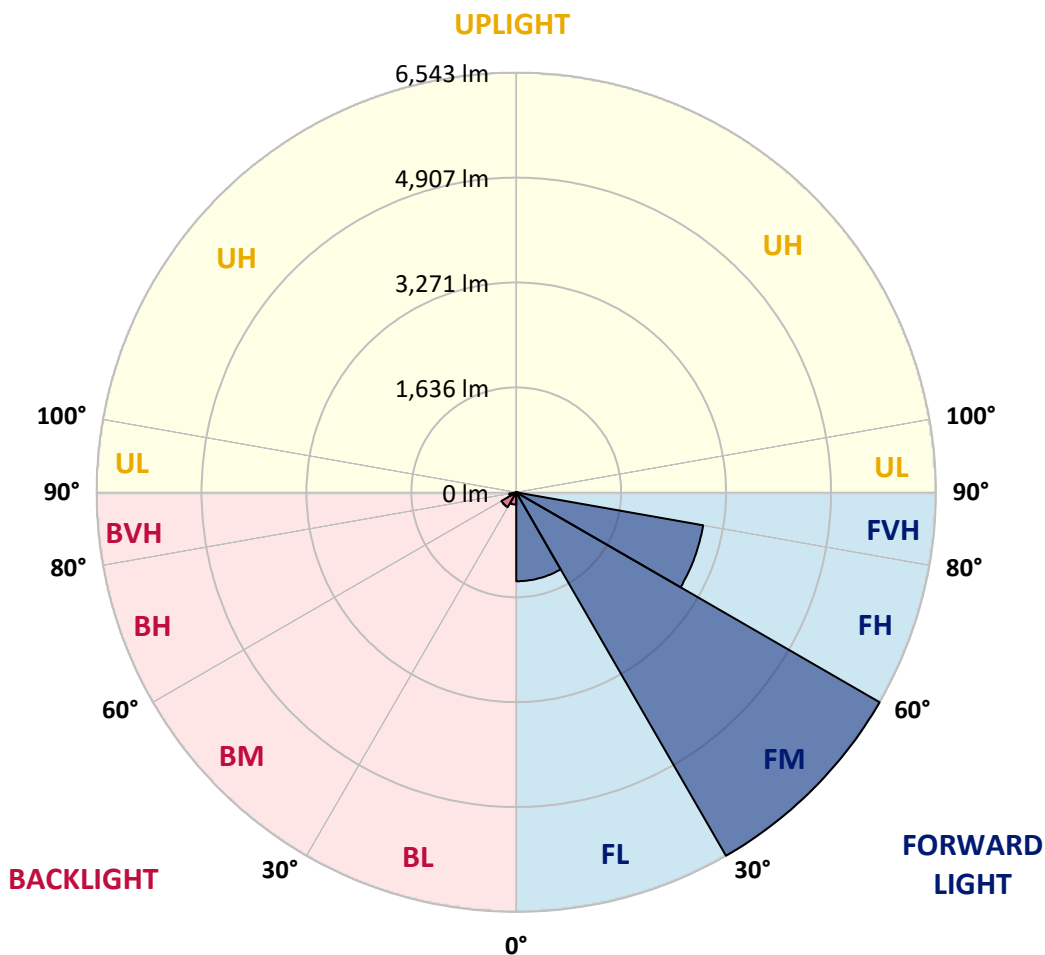


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1386.2	12.1			
FM (30°-60°)	6542.8	57.0			
FH (60°-80°)	2960.1	25.8			G2/5000
FVH (80°-90°)	25.6	0.2			G1/100
BL (0°-30°)	192.3	1.7	B1/500		
BM (30°-60°)	266.9	2.3	B1/1000		
BH (60°-80°)	110.2	1.0	B1/500		G1/500
BVH (80°-90°)	0.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	974.3	974.3	974.3	974.3	974.3	974.3	974.3	974.3	974.3	974.3	974.3
2.5°	1454.3	1421.6	1429.2	1408.0	1369.8	1291.3	1224.4	1161.0	1087.0	1084.5	1023.6
5°	1961.1	1933.4	1929.9	1887.1	1817.7	1684.3	1554.5	1406.5	1241.5	1229.4	1100.1
7.5°	2421.1	2398.9	2390.9	2340.0	2210.7	2080.9	1911.8	1694.4	1436.2	1414.1	1203.2
10°	2774.3	2763.8	2765.8	2729.5	2618.8	2498.1	2276.1	1998.8	1657.1	1622.9	1327.0
12.5°	3042.0	3044.6	3062.7	3040.5	2978.6	2889.1	2652.0	2323.4	1901.7	1854.9	1468.4
15°	3238.8	3251.4	3284.6	3312.3	3307.8	3230.3	3012.9	2653.0	2161.4	2109.6	1625.9
17.5°	3366.1	3380.2	3428.5	3489.9	3546.3	3528.2	3361.1	2971.1	2424.1	2364.2	1794.5
20°	3477.8	3494.5	3546.3	3627.3	3732.5	3755.1	3645.4	3279.6	2686.3	2613.3	1968.7
22.5°	3719.9	3719.4	3751.1	3798.4	3898.6	3956.9	3887.5	3565.9	2945.4	2869.4	2146.3
25°	4157.7	4141.1	4130.0	4092.8	4114.9	4151.2	4112.4	3833.6	3206.1	3129.1	2326.4
27.5°	4678.1	4688.1	4598.6	4498.4	4420.9	4383.7	4320.3	4081.7	3456.7	3372.2	2502.6
30°	5227.1	5230.1	5124.4	4996.6	4826.0	4684.6	4574.9	4318.8	3714.4	3622.3	2673.7
32.5°	5722.3	5702.6	5598.0	5423.9	5208.5	5049.4	4821.5	4583.5	3987.1	3898.0	2863.9
35°	6114.8	6091.6	5964.3	5805.8	5582.4	5422.3	5148.1	4847.7	4274.0	4186.9	3054.6
37.5°	6401.6	6374.5	6243.6	6080.6	5887.8	5794.7	5527.0	5135.0	4587.0	4493.4	3255.4
40°	6501.3	6477.6	6395.6	6276.3	6121.3	6100.2	5929.1	5465.6	4927.7	4828.0	3482.9
42.5°	6441.9	6418.7	6389.6	6349.3	6284.9	6305.0	6308.5	5842.5	5306.1	5208.0	3734.0
45°	6206.4	6185.7	6215.9	6274.8	6354.8	6454.5	6654.8	6247.6	5728.8	5624.1	4024.4
47.5°	5859.7	5844.6	5928.1	6075.0	6309.0	6583.8	6971.3	6673.4	6203.4	6106.2	4386.7
50°	5366.5	5364.0	5531.0	5799.3	6159.1	6646.2	7298.4	7157.5	6862.6	6760.4	4890.4
52.5°	4598.6	4603.6	4932.2	5361.5	5895.9	6603.9	7508.8	7779.5	7629.5	7523.3	5326.7
55°	3867.4	3897.5	4130.5	4749.5	5492.3	6446.9	7581.2	8069.9	8052.7	7952.1	5569.3
57.5°	3151.3	3206.1	3430.5	4008.8	4903.0	6085.1	7541.5	8195.7	8367.8	8290.8	5889.3
60°	2375.3	2400.4	2659.1	3199.6	4146.6	5424.9	7253.1	8264.1	8798.5	8745.2	6353.8
62.5°	1511.2	1574.1	1803.6	2324.9	3228.7	4508.0	6767.0	8263.1	9337.5	9366.7	6953.2
65°	796.1	869.6	991.4	1440.8	2218.8	3483.9	6035.8	8185.6	9998.8	10039.5	7421.7
67.5°	429.3	450.4	514.8	747.8	1286.8	2360.2	4961.4	7803.1	10381.7	10435.6	7487.1
70°	314.0	325.6	349.7	413.7	647.7	1370.8	3620.3	6936.1	9888.0	9867.9	6652.2
72.5°	241.0	259.2	277.3	302.9	372.4	731.7	2254.0	5431.4	7889.7	7756.8	4972.5
75°	190.2	193.2	218.9	242.1	279.3	416.7	1000.9	3163.3	4815.4	4500.9	2578.6
77.5°	152.0	154.0	169.1	189.2	224.4	273.8	310.0	1244.5	1537.4	1371.8	559.6
80°	90.1	95.1	125.8	145.9	186.2	172.6	113.2	270.2	240.0	217.4	94.1
82.5°	50.3	54.3	71.0	115.2	129.8	82.5	56.4	73.0	56.4	54.9	26.7
85°	0.0	2.5	45.8	71.5	52.8	18.1	23.7	24.2	16.6	15.6	10.6
87.5°	0.0	0.0	14.1	13.6	2.0	3.0	5.5	8.1	6.5	6.5	5.5
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°	974.3	974.3	974.3	974.3	974.3	974.3	974.3	974.3	974.3	974.3	974.3
2.5°	993.4	966.2	914.9	864.6	822.3	787.6	756.4	743.8	733.7	732.2	724.2
5°	1037.7	982.8	884.7	804.2	750.3	712.1	679.4	659.2	643.6	637.6	632.1
7.5°	1104.6	1021.6	880.7	788.1	723.7	659.2	598.8	533.4	492.7	477.1	468.0
10°	1186.1	1072.9	895.8	783.5	670.8	534.9	434.8	351.8	318.0	307.0	304.0
12.5°	1281.2	1136.8	921.9	755.4	558.1	379.9	299.9	271.7	264.2	260.7	260.7
15°	1390.4	1206.8	940.5	673.8	412.7	287.3	259.7	246.6	238.5	234.0	234.5
17.5°	1502.2	1275.2	931.5	555.6	304.5	255.6	235.0	220.9	209.8	205.3	204.3
20°	1614.9	1338.6	881.2	413.7	257.7	232.0	208.8	193.2	182.2	177.6	176.6
22.5°	1731.6	1392.4	792.6	303.4	231.5	205.8	183.2	167.6	157.0	153.0	151.0
25°	1845.4	1436.2	668.8	245.6	206.8	181.2	159.5	144.9	135.4	131.3	130.8
27.5°	1951.5	1463.9	525.4	216.9	185.2	159.0	139.4	126.3	118.3	115.2	114.7
30°	2047.2	1466.4	388.5	195.8	166.1	139.9	121.8	110.2	103.2	100.1	99.1
32.5°	2143.8	1445.3	282.8	176.6	148.5	123.3	105.7	96.6	91.6	89.1	89.1
35°	2234.9	1396.5	220.4	160.0	131.3	107.2	93.1	86.6	83.5	81.0	81.0
37.5°	2323.9	1326.5	187.2	145.4	115.2	93.6	82.0	78.0	75.5	73.0	73.0
40°	2414.5	1238.5	170.1	131.8	102.2	83.0	73.0	69.4	66.9	64.9	64.4
42.5°	2525.7	1136.8	159.0	119.3	90.6	73.5	64.4	60.4	58.4	56.4	55.4
45°	2654.6	1049.2	150.0	106.7	81.0	65.4	55.9	51.8	48.8	46.3	45.8
47.5°	2840.3	985.8	137.9	93.1	72.0	56.9	48.3	43.8	39.3	36.7	36.2
50°	3077.3	933.5	122.3	81.0	62.9	48.3	40.3	34.7	30.7	28.2	28.2
52.5°	3195.0	865.1	108.2	70.5	52.8	40.8	32.7	26.2	24.2	21.6	21.6
55°	3242.3	812.7	94.1	59.9	43.8	33.7	25.7	20.1	18.6	17.1	16.6
57.5°	3375.2	797.6	82.0	50.8	36.2	26.7	19.6	15.1	14.1	12.1	12.1
60°	3589.1	805.2	71.0	43.3	29.2	20.6	14.6	11.6	10.6	8.6	8.6
62.5°	3820.0	795.6	59.9	37.2	22.6	15.1	10.1	8.6	8.6	5.0	4.5
65°	3864.3	708.6	51.3	30.7	17.6	11.1	6.5	5.5	7.5	1.0	0.0
67.5°	3586.5	549.5	44.3	23.7	13.1	8.6	5.0	2.5	6.5	0.0	0.0
70°	2867.9	349.2	35.7	17.1	10.1	7.0	4.0	1.0	5.0	0.0	0.0
72.5°	2028.0	202.8	28.2	12.1	8.6	5.5	3.0	0.0	3.0	0.0	0.0
75°	1025.6	108.2	17.6	9.1	6.5	4.0	2.0	0.0	0.5	0.0	0.0
77.5°	221.9	50.3	11.1	6.5	4.5	2.5	1.0	0.0	0.0	0.0	0.0
80°	48.3	22.1	7.0	4.0	2.5	1.5	0.0	0.0	0.0	0.0	0.0
82.5°	17.6	11.6	3.5	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.6	6.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.0	2.0	0.5	0.5	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)