

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: P321347

Luminaire Tested: **GAN-SA3A-760-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321347
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-760-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 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: 11484 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

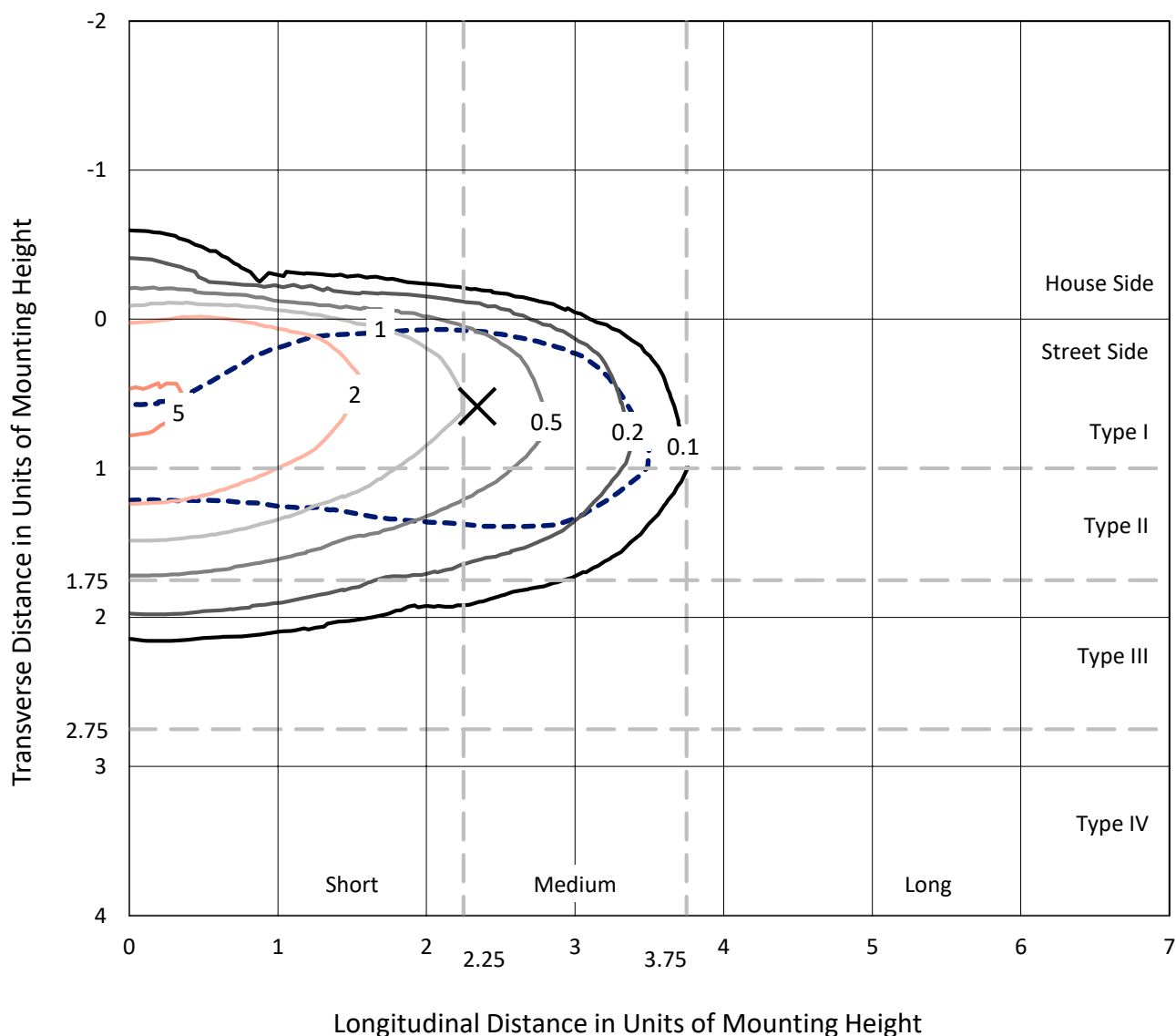
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

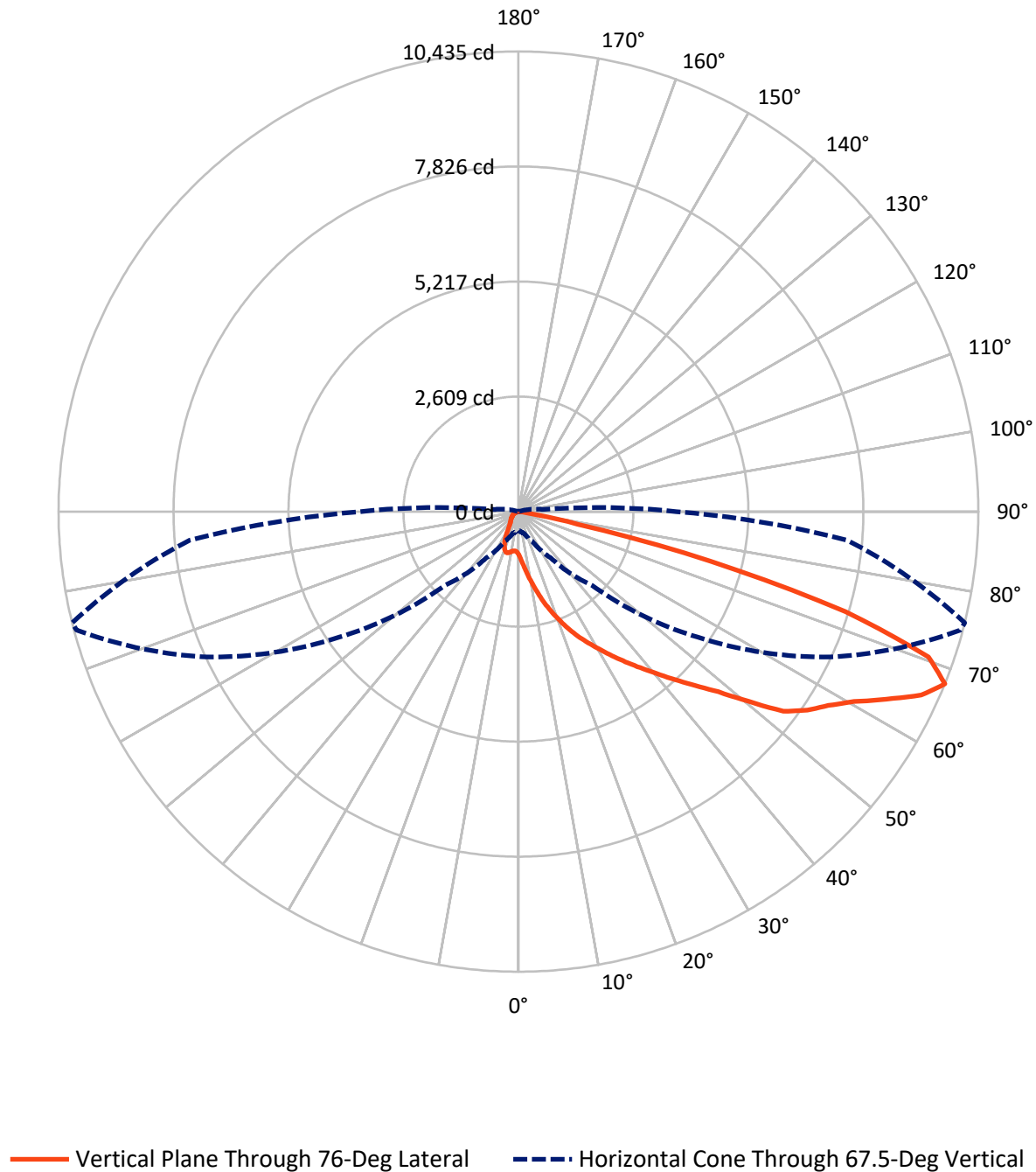
✕ Max cd
 - - - 1/2 Max cd



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



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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	10913.7	0.0	10913.7
	% Fixture	95.0	0.0	95.0
Total	Lumens	11484.0	0.0	11484.0
	% 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°	1695.9	14.8
40°-50°	2396.0	20.9
50°-60°	2717.2	23.7
60°-70°	2253.7	19.6
70°-80°	816.3	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°	11484.0	100.0
0°-180°	11484.0	100.0

Coefficient of Utilization



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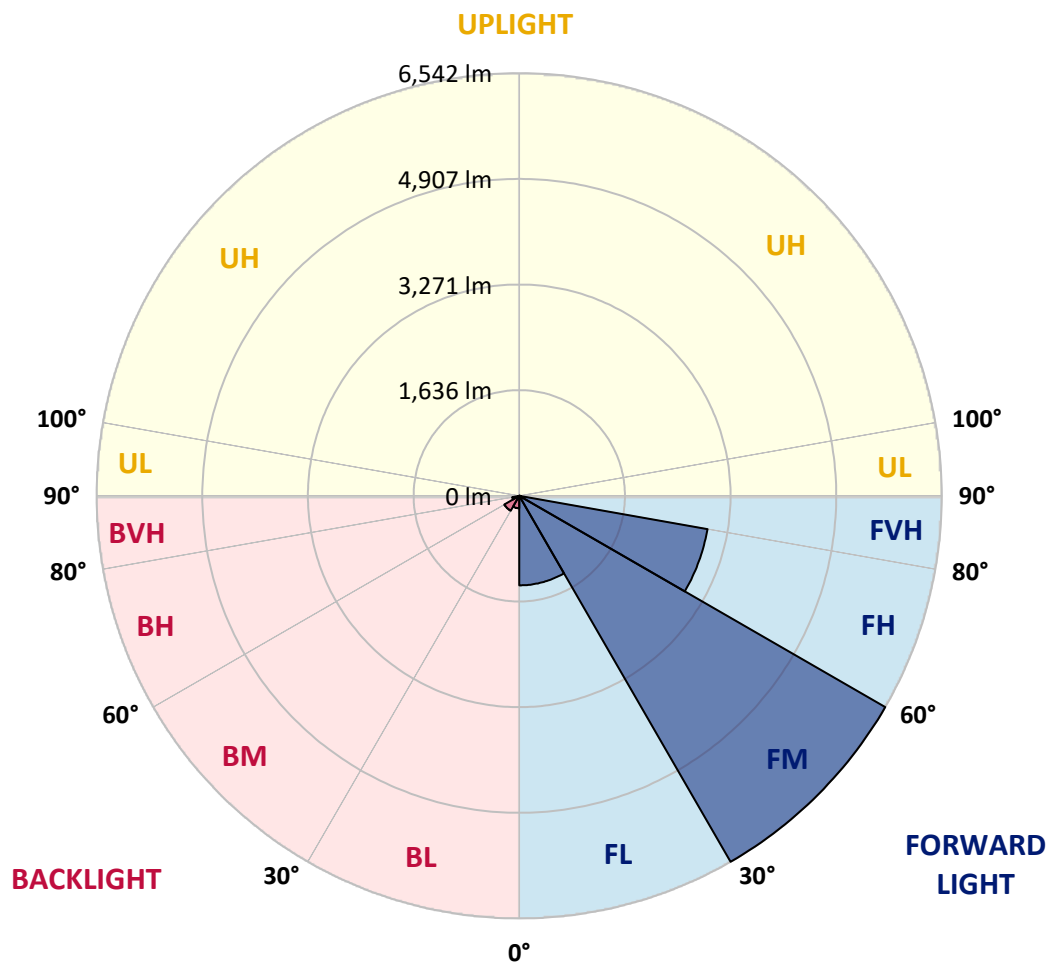
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1386.1	12.1			
FM	(30°-60°)	6542.2	57.0			
FH	(60°-80°)	2959.8	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°	974.2	974.2	974.2	974.2	974.2	974.2	974.2	974.2	974.2	974.2	974.2
2.5°	1454.2	1421.5	1429.1	1407.9	1369.7	1291.2	1224.3	1160.9	1086.9	1084.4	1023.5
5°	1960.9	1933.3	1929.7	1887.0	1817.5	1684.2	1554.4	1406.4	1241.4	1229.3	1100.0
7.5°	2420.8	2398.7	2390.7	2339.8	2210.5	2080.7	1911.6	1694.2	1436.1	1414.0	1203.1
10°	2774.1	2763.5	2765.5	2729.3	2618.6	2497.8	2275.9	1998.7	1657.0	1622.8	1326.9
12.5°	3041.8	3044.3	3062.4	3040.3	2978.4	2888.8	2651.8	2323.2	1901.6	1854.8	1468.3
15°	3238.5	3251.1	3284.3	3312.0	3307.5	3230.0	3012.6	2652.8	2161.2	2109.4	1625.8
17.5°	3365.8	3379.9	3428.2	3489.6	3546.0	3527.9	3360.8	2970.8	2423.9	2364.0	1794.4
20°	3477.5	3494.2	3546.0	3627.0	3732.2	3754.8	3645.1	3279.3	2686.0	2613.1	1968.5
22.5°	3719.6	3719.1	3750.8	3798.1	3898.2	3956.6	3887.1	3565.6	2945.2	2869.2	2146.1
25°	4157.4	4140.8	4129.7	4092.4	4114.6	4150.8	4112.1	3833.3	3205.8	3128.8	2326.2
27.5°	4677.7	4687.7	4598.2	4498.0	4420.5	4383.3	4319.9	4081.4	3456.4	3371.9	2502.4
30°	5226.6	5229.7	5124.0	4996.2	4825.6	4684.2	4574.5	4318.4	3714.0	3622.0	2673.4
32.5°	5721.8	5702.1	5597.5	5423.4	5208.0	5049.0	4821.1	4583.1	3986.8	3897.7	2863.7
35°	6114.3	6091.1	5963.8	5805.3	5581.9	5421.9	5147.6	4847.2	4273.6	4186.5	3054.4
37.5°	6401.1	6373.9	6243.1	6080.0	5887.3	5794.2	5526.5	5134.6	4586.6	4493.0	3255.1
40°	6500.7	6477.1	6395.0	6275.8	6120.8	6099.7	5928.6	5465.1	4927.2	4827.6	3482.6
42.5°	6441.3	6418.2	6389.0	6348.7	6284.3	6304.5	6308.0	5842.0	5305.6	5207.5	3733.7
45°	6205.8	6185.2	6215.4	6274.3	6354.3	6453.9	6654.2	6247.1	5728.3	5623.7	4024.0
47.5°	5859.1	5844.0	5927.6	6074.5	6308.5	6583.2	6970.7	6672.8	6202.8	6105.7	4386.3
50°	5366.0	5363.5	5530.6	5798.8	6158.5	6645.6	7297.8	7156.9	6862.0	6759.9	4890.0
52.5°	4598.2	4603.2	4931.8	5361.0	5895.4	6603.4	7508.1	7778.8	7628.9	7522.7	5326.3
55°	3867.0	3897.2	4130.2	4749.1	5491.8	6446.4	7580.6	8069.2	8052.0	7951.4	5568.8
57.5°	3151.0	3205.8	3430.2	4008.4	4902.6	6084.6	7540.8	8195.0	8367.0	8290.1	5888.8
60°	2375.1	2400.2	2658.9	3199.3	4146.3	5424.4	7252.5	8263.4	8797.8	8744.4	6353.3
62.5°	1511.1	1574.0	1803.4	2324.7	3228.5	4507.6	6766.4	8262.4	9336.7	9365.9	6952.6
65°	796.0	869.5	991.3	1440.6	2218.6	3483.6	6035.3	8184.9	9997.9	10038.6	7421.0
67.5°	429.2	450.4	514.8	747.7	1286.7	2360.0	4961.0	7802.5	10380.8	10434.7	7486.5
70°	314.0	325.6	349.7	413.6	647.6	1370.7	3619.9	6935.5	9887.2	9867.1	6651.7
72.5°	241.0	259.1	277.3	302.9	372.4	731.6	2253.8	5430.9	7889.0	7756.2	4972.0
75°	190.2	193.2	218.9	242.0	279.3	416.6	1000.8	3163.1	4815.0	4500.5	2578.3
77.5°	152.0	154.0	169.1	189.2	224.4	273.7	310.0	1244.4	1537.2	1371.7	559.5
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	70.9	115.2	129.8	82.5	56.4	73.0	56.4	54.8	26.7
85°	0.0	2.5	45.8	71.5	52.8	18.1	23.6	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°	974.2	974.2	974.2	974.2	974.2	974.2	974.2	974.2	974.2	974.2	974.2
2.5°	993.3	966.1	914.8	864.5	822.2	787.5	756.3	743.7	733.7	732.1	724.1
5°	1037.6	982.7	884.6	804.1	750.3	712.0	679.3	659.2	643.6	637.5	632.0
7.5°	1104.5	1021.5	880.6	788.0	723.6	659.2	598.8	533.4	492.6	477.0	468.0
10°	1186.0	1072.8	895.7	783.5	670.8	534.9	434.8	351.7	318.0	306.9	303.9
12.5°	1281.1	1136.7	921.8	755.3	558.0	379.9	299.9	271.7	264.2	260.7	260.7
15°	1390.3	1206.6	940.5	673.8	412.6	287.3	259.6	246.6	238.5	234.0	234.5
17.5°	1502.0	1275.1	931.4	555.5	304.4	255.6	235.0	220.9	209.8	205.3	204.3
20°	1614.7	1338.5	881.1	413.6	257.6	232.0	208.8	193.2	182.2	177.6	176.6
22.5°	1731.5	1392.3	792.5	303.4	231.5	205.8	183.2	167.6	157.0	153.0	151.0
25°	1845.2	1436.1	668.7	245.6	206.8	181.1	159.5	144.9	135.4	131.3	130.8
27.5°	1951.4	1463.8	525.3	216.9	185.2	159.0	139.4	126.3	118.2	115.2	114.7
30°	2047.0	1466.3	388.5	195.7	166.1	139.9	121.8	110.2	103.2	100.1	99.1
32.5°	2143.6	1445.2	282.8	176.6	148.4	123.3	105.7	96.6	91.6	89.1	89.1
35°	2234.7	1396.4	220.4	160.0	131.3	107.2	93.1	86.5	83.5	81.0	81.0
37.5°	2323.7	1326.4	187.2	145.4	115.2	93.6	82.0	78.0	75.5	73.0	73.0
40°	2414.3	1238.4	170.1	131.8	102.1	83.0	73.0	69.4	66.9	64.9	64.4
42.5°	2525.5	1136.7	159.0	119.3	90.6	73.5	64.4	60.4	58.4	56.4	55.4
45°	2654.3	1049.2	150.0	106.7	81.0	65.4	55.9	51.8	48.8	46.3	45.8
47.5°	2840.0	985.7	137.9	93.1	72.0	56.9	48.3	43.8	39.2	36.7	36.2
50°	3077.0	933.4	122.3	81.0	62.9	48.3	40.3	34.7	30.7	28.2	28.2
52.5°	3194.8	865.0	108.2	70.4	52.8	40.8	32.7	26.2	24.2	21.6	21.6
55°	3242.1	812.7	94.1	59.9	43.8	33.7	25.7	20.1	18.6	17.1	16.6
57.5°	3374.9	797.6	82.0	50.8	36.2	26.7	19.6	15.1	14.1	12.1	12.1
60°	3588.8	805.1	70.9	43.3	29.2	20.6	14.6	11.6	10.6	8.6	8.6
62.5°	3819.7	795.5	59.9	37.2	22.6	15.1	10.1	8.6	8.6	5.0	4.5
65°	3864.0	708.5	51.3	30.7	17.6	11.1	6.5	5.5	7.5	1.0	0.0
67.5°	3586.2	549.5	44.3	23.6	13.1	8.6	5.0	2.5	6.5	0.0	0.0
70°	2867.7	349.2	35.7	17.1	10.1	7.0	4.0	1.0	5.0	0.0	0.0
72.5°	2027.9	202.8	28.2	12.1	8.6	5.5	3.0	0.0	3.0	0.0	0.0
75°	1025.5	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)