

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: P321243

Luminaire Tested: **GAN-SA9B-730-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321243
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-SA9B-730-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 800mA 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: 37553 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

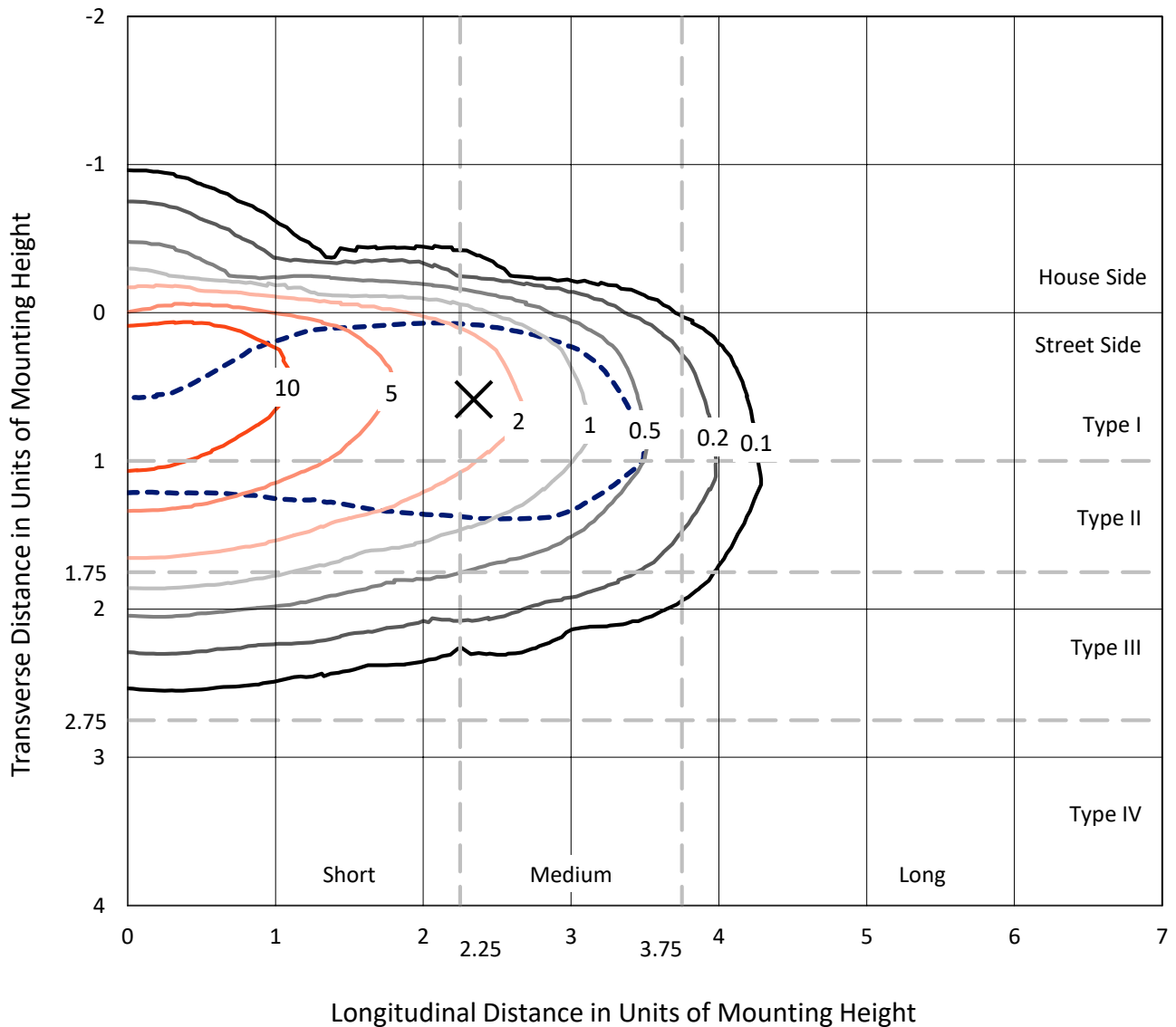
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

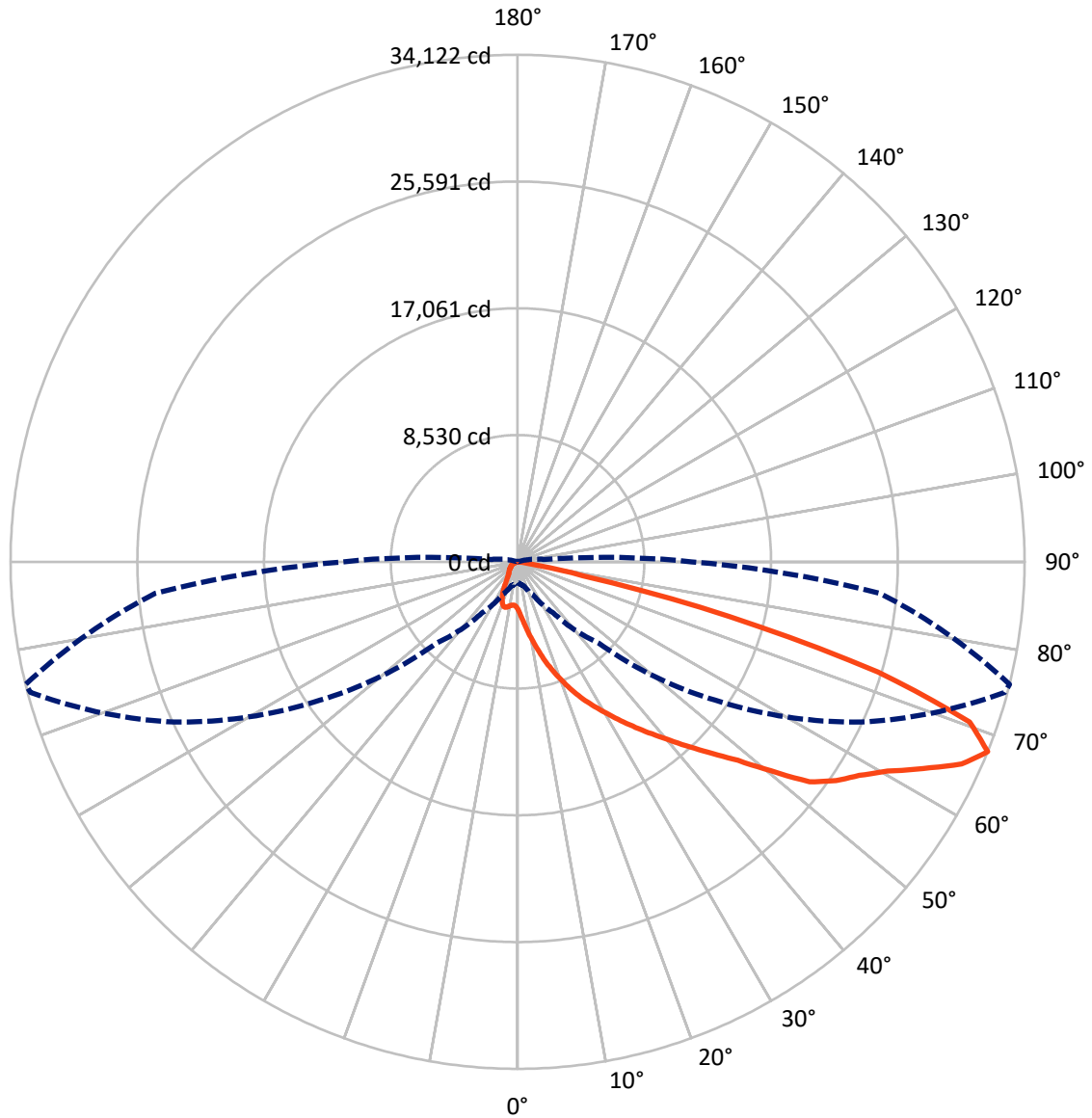
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.9 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	1864.8	0.0	1864.8
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	35688.2	0.0	35688.2
	% Fixture	95.0	0.0	95.0
Total	Lumens	37553.0	0.0	37553.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	396.1	1.1
10°-20°	1570.3	4.2
20°-30°	3195.0	8.5
30°-40°	5545.5	14.8
40°-50°	7835.1	20.9
50°-60°	8885.4	23.7
60°-70°	7369.6	19.6
70°-80°	2669.5	7.1
80°-90°	86.6	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°	37553.0	100.0
0°-180°	37553.0	100.0

Coefficient of Utilization

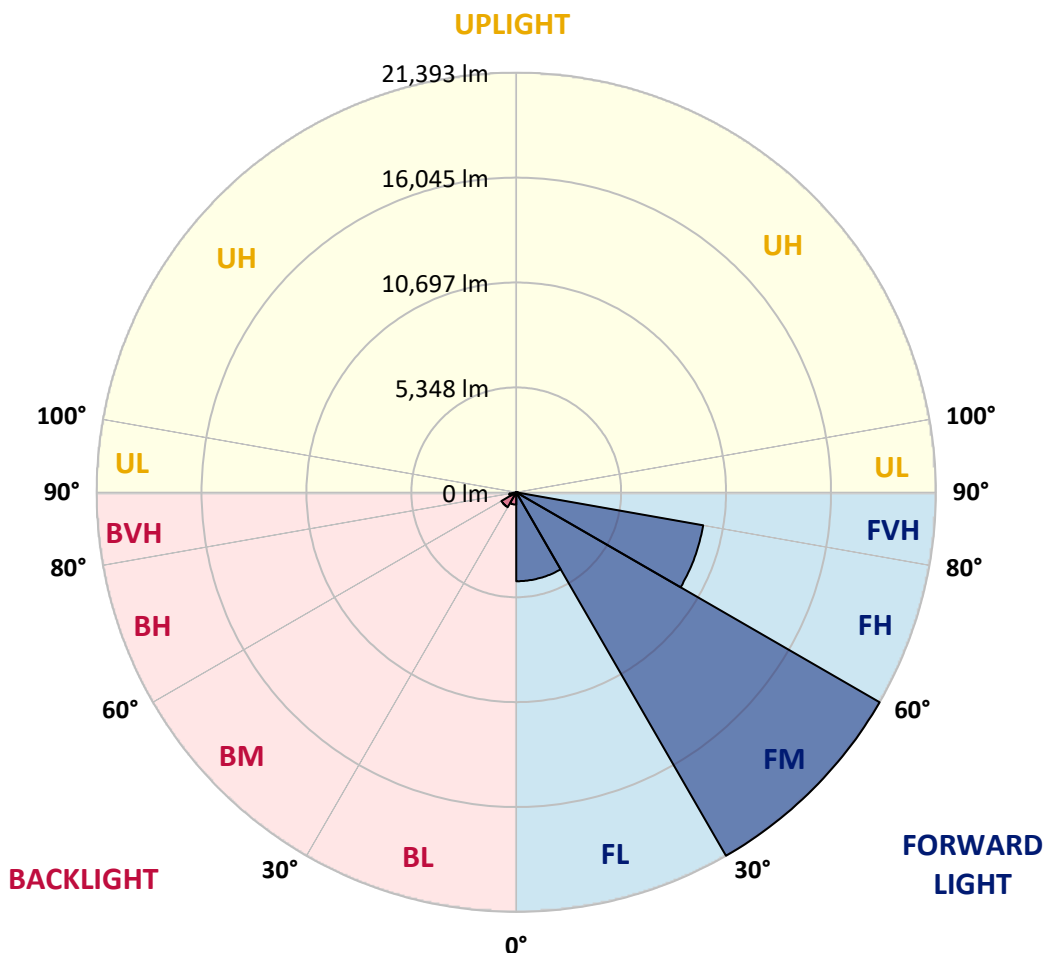


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4532.5	12.1			
FM (30°-60°)	21393.2	57.0			
FH (60°-80°)	9678.7	25.8			G4/12000
FVH (80°-90°)	83.8	0.2			G1/100
BL (0°-30°)	628.9	1.7	B2/1000		
BM (30°-60°)	872.8	2.3	B1/1000		
BH (60°-80°)	360.4	1.0	B1/500		G1/500
BVH (80°-90°)	2.7	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°	3185.6	3185.6	3185.6	3185.6	3185.6	3185.6	3185.6	3185.6	3185.6	3185.6	3185.6
2.5°	4755.3	4648.4	4673.1	4604.0	4478.9	4222.2	4003.4	3796.0	3554.2	3545.9	3346.8
5°	6412.3	6321.8	6310.3	6170.4	5943.3	5507.3	5082.8	4599.0	4059.3	4019.8	3596.9
7.5°	7916.2	7843.8	7817.5	7651.3	7228.4	6803.9	6251.0	5540.2	4696.1	4623.7	3934.3
10°	9071.3	9036.8	9043.4	8924.9	8562.9	8168.0	7442.3	6535.7	5418.5	5306.6	4339.0
12.5°	9946.7	9954.9	10014.2	9941.8	9739.4	9446.5	8671.5	7597.0	6218.1	6065.1	4801.4
15°	10590.1	10631.2	10739.8	10830.3	10815.5	10562.1	9851.3	8674.8	7067.2	6897.7	5316.4
17.5°	11006.4	11052.5	11210.4	11411.2	11595.5	11536.2	10989.9	9714.7	7926.1	7730.3	5867.7
20°	11371.7	11426.0	11595.5	11860.4	12204.3	12278.3	11919.6	10723.4	8783.4	8544.8	6437.0
22.5°	12163.1	12161.5	12265.1	12419.8	12747.3	12938.1	12711.1	11659.6	9630.8	9382.3	7017.8
25°	13594.7	13540.4	13504.2	13382.4	13454.8	13573.3	13446.6	12535.0	10483.1	10231.4	7606.9
27.5°	15296.1	15329.0	15036.1	14708.6	14455.2	14333.5	14126.1	13346.2	11302.6	11026.1	8182.8
30°	17091.2	17101.1	16755.6	16337.6	15779.8	15317.4	14958.7	14121.2	12145.0	11843.9	8742.3
32.5°	18710.4	18646.2	18303.9	17734.6	17030.4	16510.4	15765.0	14986.7	13036.9	12745.6	9364.2
35°	19993.8	19918.1	19501.8	18983.5	18252.9	17729.7	16832.9	15850.6	13974.8	13690.1	9987.9
37.5°	20931.7	20842.9	20415.0	19881.9	19251.7	18947.3	18071.9	16790.1	14998.2	14692.2	10644.4
40°	21257.5	21180.2	20912.0	20522.0	20015.2	19946.1	19386.6	17871.2	16112.2	15786.4	11388.1
42.5°	21063.3	20987.7	20892.2	20760.6	20550.0	20615.8	20627.3	19103.6	17349.6	17028.7	12209.2
45°	20293.3	20225.8	20324.5	20517.1	20778.7	21104.5	21759.4	20428.2	18731.7	18389.5	13158.6
47.5°	19159.6	19110.2	19383.3	19863.8	20628.9	21527.4	22794.4	21820.2	20283.4	19965.8	14343.3
50°	17547.0	17538.8	18085.1	18962.1	20138.6	21731.4	23863.9	23403.2	22438.9	22104.9	15990.4
52.5°	15036.1	15052.5	16127.0	17530.6	19278.0	21593.2	24551.7	25436.9	24946.6	24599.4	17417.0
55°	12645.2	12744.0	13505.8	15529.7	17958.4	21079.8	24788.6	26386.4	26330.4	26001.3	18210.1
57.5°	10303.8	10483.1	11217.0	13107.6	16031.6	19896.7	24658.6	26797.7	27360.5	27108.7	19256.6
60°	7766.5	7848.8	8694.5	10461.7	13558.5	17737.9	23715.8	27021.5	28769.0	28594.5	20775.4
62.5°	4941.3	5147.0	5897.3	7602.0	10557.2	14739.9	22126.3	27018.2	30531.2	30626.7	22735.1
65°	2603.1	2843.3	3241.5	4710.9	7254.8	11391.4	19735.5	26764.8	32693.4	32826.6	24267.0
67.5°	1403.6	1472.7	1683.3	2445.1	4207.4	7717.1	16222.4	25514.3	33945.5	34121.6	24480.9
70°	1026.8	1064.6	1143.6	1352.6	2117.7	4482.2	11837.3	22679.2	32331.4	32265.5	21751.1
72.5°	788.2	847.4	906.6	990.6	1217.6	2392.5	7369.9	17759.3	25797.3	25362.9	16258.6
75°	622.0	631.9	715.8	791.5	913.2	1362.4	3272.8	10343.3	15745.3	14716.9	8431.3
77.5°	496.9	503.5	552.9	618.7	733.9	895.1	1013.6	4069.2	5026.8	4485.5	1829.7
80°	294.5	311.0	411.4	477.2	608.8	564.4	370.2	883.6	784.9	710.8	307.7
82.5°	164.5	177.7	232.0	376.8	424.5	269.9	184.3	238.6	184.3	179.4	87.2
85°	0.0	8.2	149.7	233.7	172.8	59.2	77.3	79.0	54.3	51.0	34.6
87.5°	0.0	0.0	46.1	44.4	6.6	9.9	18.1	26.3	21.4	21.4	18.1
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°	3185.6	3185.6	3185.6	3185.6	3185.6	3185.6	3185.6	3185.6	3185.6	3185.6	3185.6
2.5°	3248.1	3159.3	2991.4	2826.9	2688.7	2575.1	2473.1	2432.0	2399.1	2394.1	2367.8
5°	3392.9	3213.6	2892.7	2629.4	2453.4	2328.3	2221.4	2155.5	2104.5	2084.8	2066.7
7.5°	3611.8	3340.3	2879.5	2576.8	2366.2	2155.5	1958.1	1744.2	1610.9	1559.9	1530.3
10°	3878.3	3508.1	2928.9	2562.0	2193.4	1749.1	1421.7	1150.2	1039.9	1003.7	993.8
12.5°	4189.3	3717.1	3014.5	2469.8	1824.8	1242.3	980.7	888.5	863.9	852.3	852.3
15°	4546.4	3945.8	3075.3	2203.3	1349.3	939.5	849.0	806.3	779.9	765.1	766.8
17.5°	4911.7	4169.6	3045.7	1816.6	995.5	835.9	768.4	722.4	686.2	671.3	668.1
20°	5280.2	4376.9	2881.2	1352.6	842.5	758.6	682.9	631.9	595.7	580.8	577.6
22.5°	5662.0	4552.9	2591.6	992.2	756.9	673.0	598.9	547.9	513.4	500.2	493.6
25°	6033.8	4696.1	2186.8	803.0	676.3	592.4	521.6	473.9	442.6	429.5	427.8
27.5°	6381.0	4786.6	1717.8	709.2	605.5	520.0	455.8	413.0	386.7	376.8	375.2
30°	6693.7	4794.8	1270.3	640.1	543.0	457.4	398.2	360.4	337.3	327.4	324.2
32.5°	7009.6	4725.7	924.7	577.6	485.4	403.1	345.5	315.9	299.5	291.2	291.2
35°	7307.4	4566.1	720.7	523.3	429.5	350.5	304.4	283.0	273.1	264.9	264.9
37.5°	7598.7	4337.4	612.1	475.5	376.8	306.1	268.2	255.0	246.8	238.6	238.6
40°	7894.8	4049.4	556.2	431.1	334.0	271.5	238.6	227.1	218.8	212.3	210.6
42.5°	8258.5	3717.1	520.0	390.0	296.2	240.2	210.6	197.5	190.9	184.3	181.0
45°	8679.7	3430.8	490.3	348.8	264.9	213.9	182.6	169.5	159.6	151.4	149.7
47.5°	9286.9	3223.4	450.9	304.4	235.3	185.9	158.0	143.2	128.3	120.1	118.5
50°	10061.9	3052.3	399.8	264.9	205.7	158.0	131.6	113.5	100.4	92.1	92.1
52.5°	10446.9	2828.5	353.8	230.4	172.8	133.3	107.0	85.6	79.0	70.8	70.8
55°	10601.6	2657.4	307.7	195.8	143.2	110.2	83.9	65.8	60.9	55.9	54.3
57.5°	11036.0	2608.0	268.2	166.2	118.5	87.2	64.2	49.4	46.1	39.5	39.5
60°	11735.3	2632.7	232.0	141.5	95.4	67.5	47.7	37.8	34.6	28.0	28.0
62.5°	12490.6	2601.4	195.8	121.8	74.0	49.4	32.9	28.0	28.0	16.5	14.8
65°	12635.4	2316.8	167.8	100.4	57.6	36.2	21.4	18.1	24.7	3.3	0.0
67.5°	11727.1	1796.8	144.8	77.3	42.8	28.0	16.5	8.2	21.4	0.0	0.0
70°	9377.4	1141.9	116.8	55.9	32.9	23.0	13.2	3.3	16.5	0.0	0.0
72.5°	6631.1	663.1	92.1	39.5	28.0	18.1	9.9	0.0	9.9	0.0	0.0
75°	3353.4	353.8	57.6	29.6	21.4	13.2	6.6	0.0	1.6	0.0	0.0
77.5°	725.6	164.5	36.2	21.4	14.8	8.2	3.3	0.0	0.0	0.0	0.0
80°	158.0	72.4	23.0	13.2	8.2	4.9	0.0	0.0	0.0	0.0	0.0
82.5°	57.6	37.8	11.5	6.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	31.3	19.7	6.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.5	6.6	1.6	1.6	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)