

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: P321242

Luminaire Tested: **GAN-SA8B-730-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321242
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-SA8B-730-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 33666 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

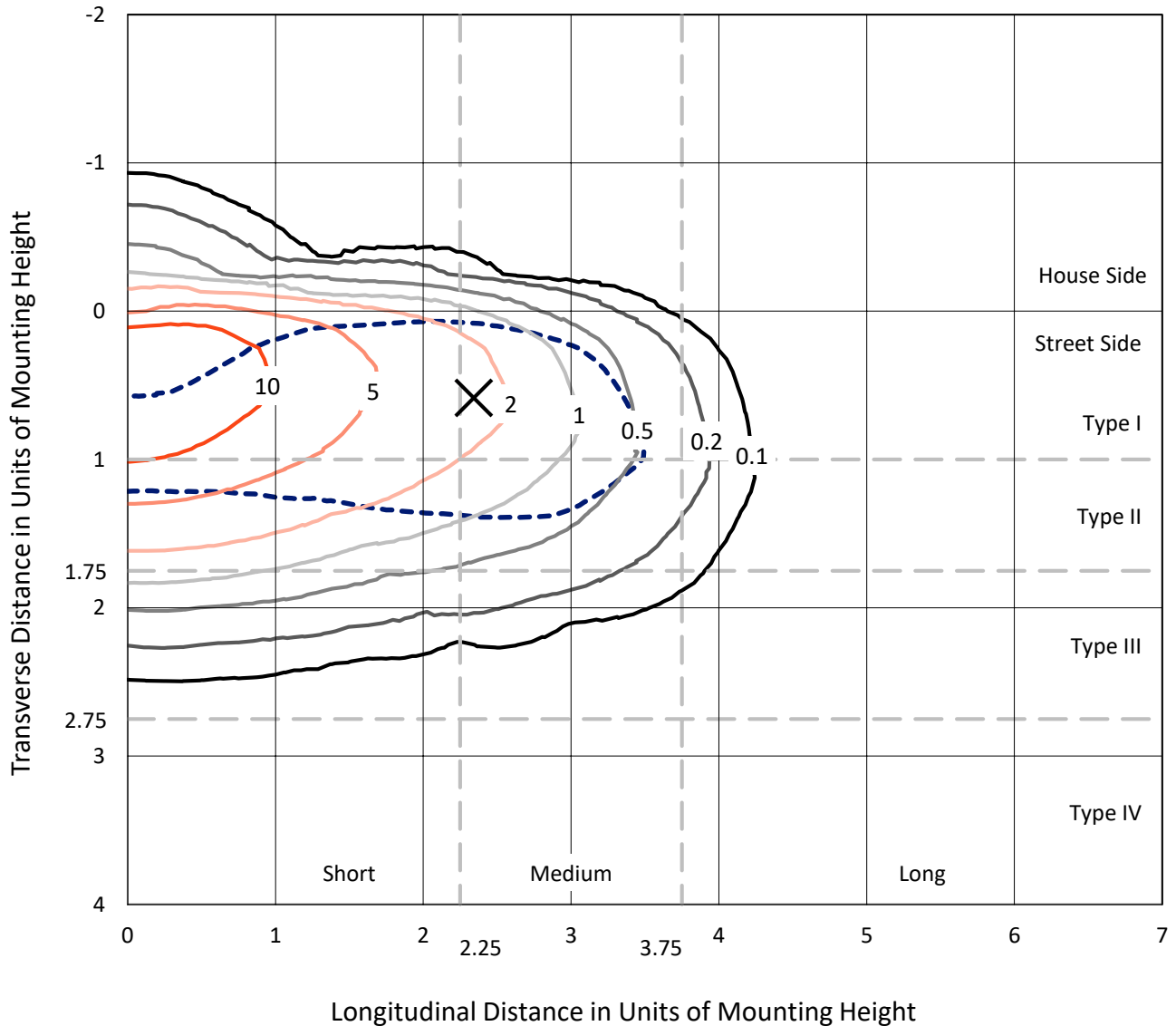
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

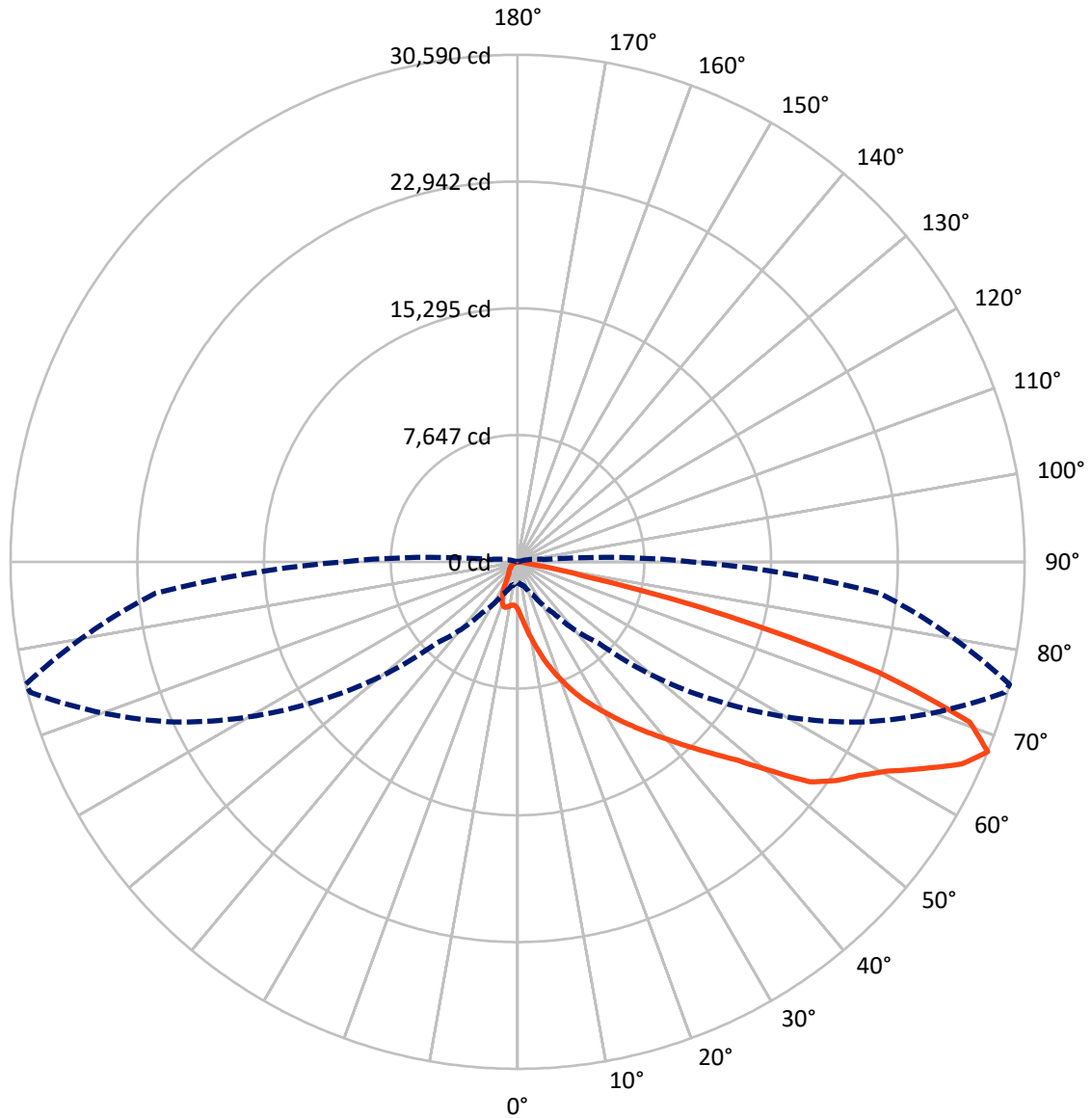
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.1 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	1671.8	0.0	1671.8
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	31994.2	0.0	31994.2
	% Fixture	95.0	0.0	95.0
Total	Lumens	33666.0	0.0	33666.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.1	1.1
10°-20°	1407.8	4.2
20°-30°	2864.3	8.5
30°-40°	4971.5	14.8
40°-50°	7024.1	20.9
50°-60°	7965.7	23.7
60°-70°	6606.8	19.6
70°-80°	2393.2	7.1
80°-90°	77.6	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°	33666.0	100.0
0°-180°	33666.0	100.0

Coefficient of Utilization

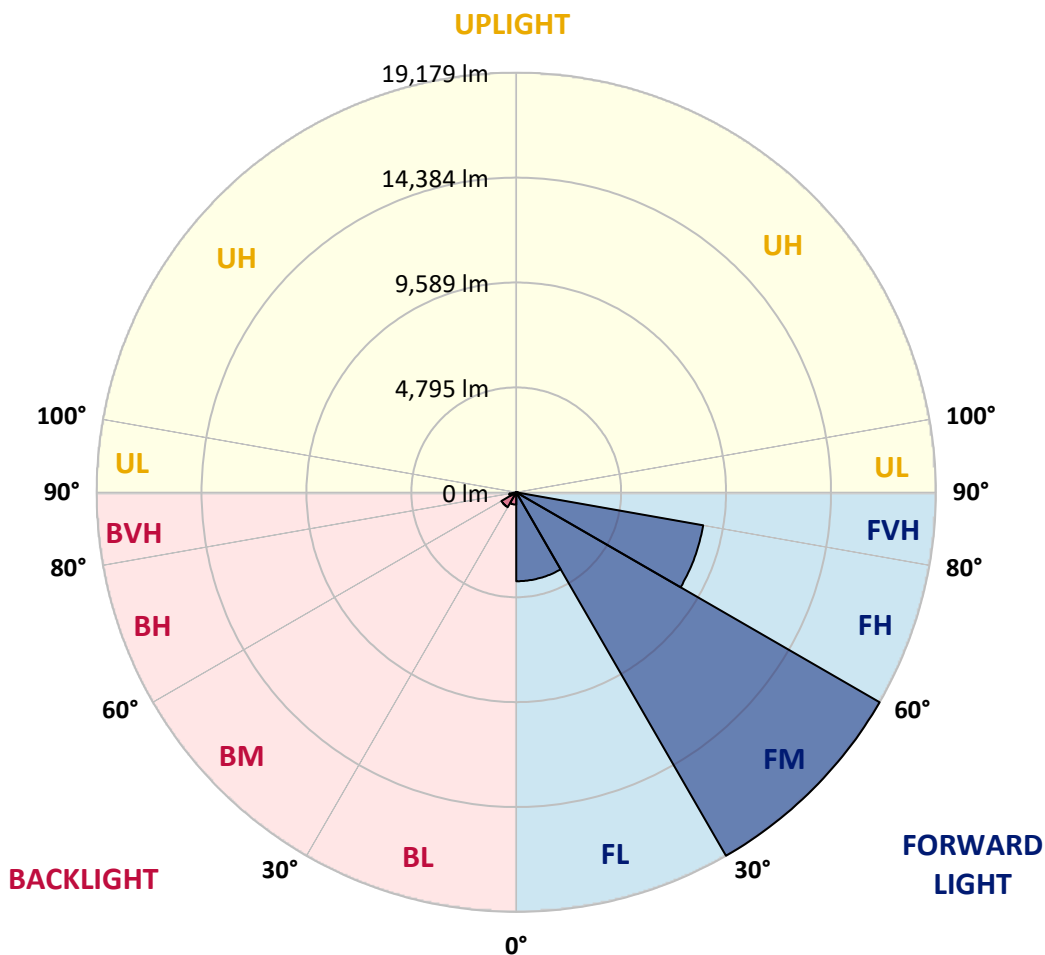


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4063.4	12.1			
FM (30°-60°)	19178.8	57.0			
FH (60°-80°)	8676.9	25.8			G4/12000
FVH (80°-90°)	75.2	0.2			G1/100
BL (0°-30°)	563.8	1.7	B2/1000		
BM (30°-60°)	782.4	2.3	B1/1000		
BH (60°-80°)	323.1	1.0	B1/500		G1/500
BVH (80°-90°)	2.4	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°	2855.9	2855.9	2855.9	2855.9	2855.9	2855.9	2855.9	2855.9	2855.9	2855.9	2855.9
2.5°	4263.1	4167.2	4189.4	4127.4	4015.3	3785.2	3589.0	3403.1	3186.3	3178.9	3000.4
5°	5748.6	5667.4	5657.1	5531.7	5328.2	4937.3	4556.7	4123.0	3639.1	3603.7	3224.6
7.5°	7096.9	7031.9	7008.3	6859.4	6480.2	6099.7	5604.0	4966.8	4210.0	4145.1	3527.0
10°	8132.4	8101.4	8107.3	8001.1	7676.6	7322.5	6672.0	5859.2	4857.6	4757.3	3889.9
12.5°	8917.2	8924.5	8977.6	8912.7	8731.3	8468.7	7773.9	6810.7	5574.5	5437.3	4304.4
15°	9493.9	9530.8	9628.2	9709.3	9696.0	9468.9	8831.6	7776.9	6335.7	6183.7	4766.1
17.5°	9867.1	9908.4	10050.1	10230.0	10395.2	10342.1	9852.4	8709.2	7105.7	6930.2	5260.3
20°	10194.6	10243.3	10395.2	10632.7	10941.0	11007.4	10685.8	9613.4	7874.2	7660.4	5770.7
22.5°	10904.2	10902.7	10995.6	11134.3	11427.8	11598.9	11395.4	10452.8	8633.9	8411.2	6291.4
25°	12187.5	12138.8	12106.4	11997.2	12062.1	12168.3	12054.8	11237.5	9398.1	9172.4	6819.5
27.5°	13712.8	13742.3	13479.7	13186.2	12959.0	12849.9	12664.0	11964.8	10132.7	9884.8	7335.8
30°	15322.2	15331.0	15021.2	14646.6	14146.5	13732.0	13410.4	12659.6	10887.9	10618.0	7837.4
32.5°	16773.7	16716.2	16409.3	15899.0	15267.6	14801.5	14133.2	13435.5	11687.5	11426.4	8395.0
35°	17924.3	17856.4	17483.2	17018.6	16363.6	15894.5	15090.6	14209.9	12528.3	12273.1	8954.0
37.5°	18765.1	18685.5	18301.9	17824.0	17259.0	16986.1	16201.4	15052.2	13445.8	13171.4	9542.6
40°	19057.2	18987.9	18747.4	18397.8	17943.5	17881.5	17380.0	16021.4	14444.5	14152.4	10209.4
42.5°	18883.1	18815.3	18729.7	18611.7	18422.9	18481.9	18492.2	17126.3	15553.8	15266.1	10945.5
45°	18192.8	18132.3	18220.8	18393.4	18627.9	18920.0	19507.1	18313.7	16792.9	16486.1	11796.6
47.5°	17176.4	17132.2	17377.0	17807.8	18493.7	19299.1	20435.0	19561.7	18183.9	17899.2	12858.7
50°	15730.8	15723.4	16213.2	16999.4	18054.1	19482.0	21393.8	20980.8	20116.3	19816.9	14335.3
52.5°	13479.7	13494.5	14457.7	15716.0	17282.6	19358.1	22010.4	22804.0	22364.4	22053.2	15614.3
55°	11336.4	11424.9	12107.9	13922.3	16099.6	18897.9	22222.8	23655.2	23605.0	23310.0	16325.3
57.5°	9237.3	9398.1	10056.0	11750.9	14372.2	17837.3	22106.3	24024.0	24528.5	24302.8	17263.4
60°	6962.6	7036.4	7794.6	9378.9	12155.1	15901.9	21261.0	24224.6	25791.2	25634.8	18625.0
62.5°	4429.8	4614.2	5286.9	6815.1	9464.4	13214.2	19836.1	24221.6	27371.0	27456.6	20381.9
65°	2333.7	2549.0	2906.0	4223.3	6503.8	10212.3	17692.7	23994.5	29309.4	29428.8	21755.2
67.5°	1258.3	1320.2	1509.1	2192.0	3771.9	6918.4	14543.3	22873.4	30431.9	30589.8	21947.0
70°	920.5	954.4	1025.2	1212.6	1898.5	4018.3	10612.1	20331.7	28984.8	28925.8	19499.7
72.5°	706.6	759.7	812.8	888.0	1091.6	2144.8	6607.1	15921.1	23127.1	22737.7	14575.8
75°	557.6	566.4	641.7	709.5	818.7	1221.4	2934.0	9272.7	14115.5	13193.6	7558.6
77.5°	445.5	451.4	495.6	554.6	657.9	802.5	908.7	3648.0	4506.5	4021.2	1640.3
80°	264.0	278.8	368.8	427.8	545.8	506.0	331.9	792.1	703.6	637.3	275.8
82.5°	147.5	159.3	208.0	337.8	380.6	241.9	165.2	213.9	165.2	160.8	78.2
85°	0.0	7.4	134.2	209.5	154.9	53.1	69.3	70.8	48.7	45.7	31.0
87.5°	0.0	0.0	41.3	39.8	5.9	8.9	16.2	23.6	19.2	19.2	16.2
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°	2855.9	2855.9	2855.9	2855.9	2855.9	2855.9	2855.9	2855.9	2855.9	2855.9	2855.9
2.5°	2911.9	2832.2	2681.8	2534.3	2410.4	2308.6	2217.1	2180.2	2150.7	2146.3	2122.7
5°	3041.7	2880.9	2593.3	2357.3	2199.4	2087.3	1991.4	1932.4	1886.7	1869.0	1852.8
7.5°	3237.9	2994.5	2581.5	2310.1	2121.2	1932.4	1755.4	1563.6	1444.2	1398.4	1371.9
10°	3476.9	3145.0	2625.7	2296.8	1966.3	1568.1	1274.5	1031.1	932.3	899.8	891.0
12.5°	3755.7	3332.3	2702.4	2214.2	1635.9	1113.7	879.2	796.6	774.4	764.1	764.1
15°	4075.8	3537.4	2757.0	1975.2	1209.6	842.3	761.2	722.8	699.2	685.9	687.4
17.5°	4403.3	3738.0	2730.5	1628.5	892.5	749.4	688.9	647.6	615.1	601.9	598.9
20°	4733.7	3923.8	2583.0	1212.6	755.3	680.0	612.2	566.4	534.0	520.7	517.8
22.5°	5075.9	4081.7	2323.3	889.5	678.6	603.3	536.9	491.2	460.2	448.4	442.5
25°	5409.3	4210.0	1960.4	719.9	606.3	531.0	467.6	424.8	396.8	385.0	383.5
27.5°	5720.6	4291.2	1540.0	635.8	542.8	466.1	408.6	370.3	346.7	337.8	336.3
30°	6000.8	4298.5	1138.8	573.8	486.8	410.1	357.0	323.1	302.4	293.6	290.6
32.5°	6284.1	4236.6	829.0	517.8	435.2	361.4	309.8	283.2	268.5	261.1	261.1
35°	6551.1	4093.5	646.1	469.1	385.0	314.2	272.9	253.7	244.9	237.5	237.5
37.5°	6812.2	3888.4	548.7	426.3	337.8	274.4	240.4	228.6	221.3	213.9	213.9
40°	7077.7	3630.3	498.6	386.5	299.5	243.4	213.9	203.6	196.2	190.3	188.8
42.5°	7403.7	3332.3	466.1	349.6	265.5	215.4	188.8	177.0	171.1	165.2	162.3
45°	7781.3	3075.6	439.6	312.7	237.5	191.8	163.7	151.9	143.1	135.7	134.2
47.5°	8325.6	2889.8	404.2	272.9	210.9	166.7	141.6	128.3	115.1	107.7	106.2
50°	9020.4	2736.4	358.5	237.5	184.4	141.6	118.0	101.8	90.0	82.6	82.6
52.5°	9365.6	2535.7	317.2	206.5	154.9	119.5	95.9	76.7	70.8	63.4	63.4
55°	9504.3	2382.3	275.8	175.5	128.3	98.8	75.2	59.0	54.6	50.2	48.7
57.5°	9893.7	2338.1	240.4	149.0	106.2	78.2	57.5	44.3	41.3	35.4	35.4
60°	10520.6	2360.2	208.0	126.9	85.6	60.5	42.8	33.9	31.0	25.1	25.1
62.5°	11197.7	2332.2	175.5	109.2	66.4	44.3	29.5	25.1	25.1	14.8	13.3
65°	11327.5	2077.0	150.5	90.0	51.6	32.5	19.2	16.2	22.1	3.0	0.0
67.5°	10513.3	1610.8	129.8	69.3	38.4	25.1	14.8	7.4	19.2	0.0	0.0
70°	8406.8	1023.7	104.7	50.2	29.5	20.7	11.8	3.0	14.8	0.0	0.0
72.5°	5944.8	594.5	82.6	35.4	25.1	16.2	8.9	0.0	8.9	0.0	0.0
75°	3006.3	317.2	51.6	26.6	19.2	11.8	5.9	0.0	1.5	0.0	0.0
77.5°	650.5	147.5	32.5	19.2	13.3	7.4	3.0	0.0	0.0	0.0	0.0
80°	141.6	64.9	20.7	11.8	7.4	4.4	0.0	0.0	0.0	0.0	0.0
82.5°	51.6	33.9	10.3	5.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	28.0	17.7	5.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.8	5.9	1.5	1.5	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)