

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: P268897

Luminaire Tested: **GAN-AF-10-LED-U-AFL-7027-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268897
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-10-LED-U-AFL-7027-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33855.2 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 419
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: 28.75 FT

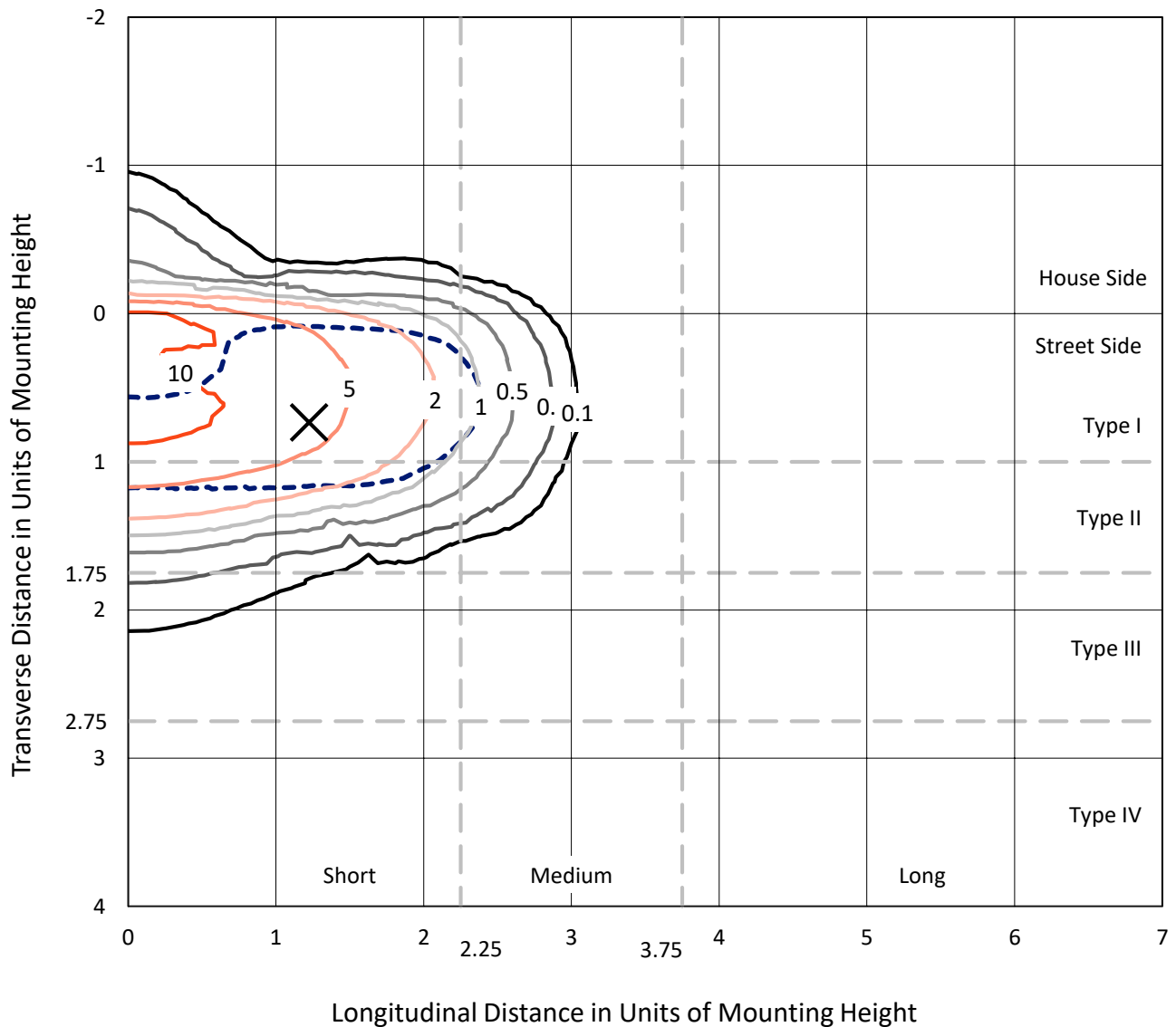


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

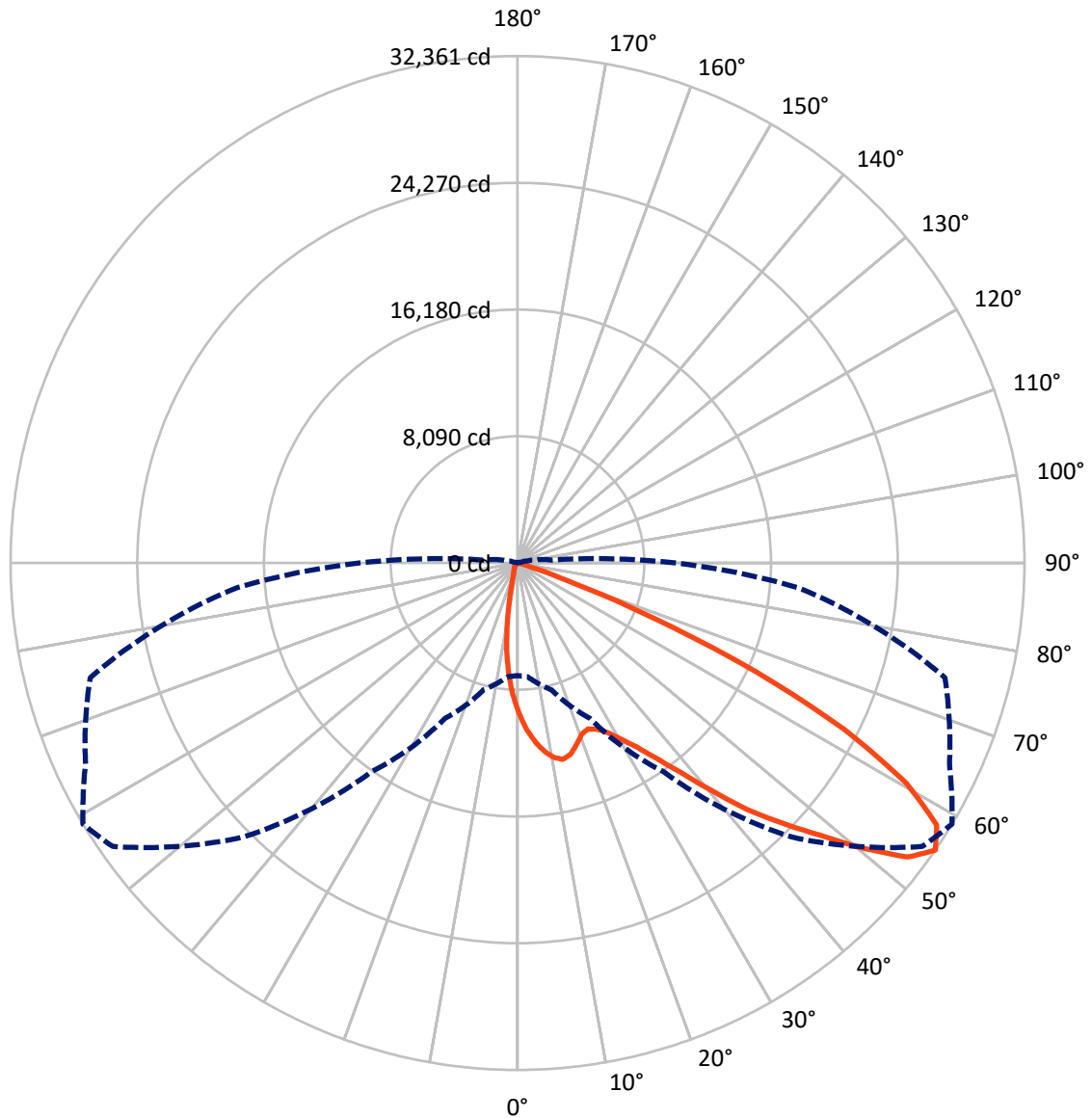


Based on 30 foot mounting height. Maximum calculated value = 13.2 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1891.0	0.0	1891.0
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	31964.2	0.0	31964.2
	% Fixture	94.4	0.0	94.4
Total	Lumens	33855.2	0.0	33855.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	798.2	2.4
10°-20°	1911.2	5.6
20°-30°	3252.2	9.6
30°-40°	5593.0	16.5
40°-50°	8635.0	25.5
50°-60°	8681.0	25.6
60°-70°	4451.7	13.1
70°-80°	482.4	1.4
80°-90°	50.4	0.1
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°	33855.2	100.0
0°-180°	33855.2	100.0

Coefficient of Utilization



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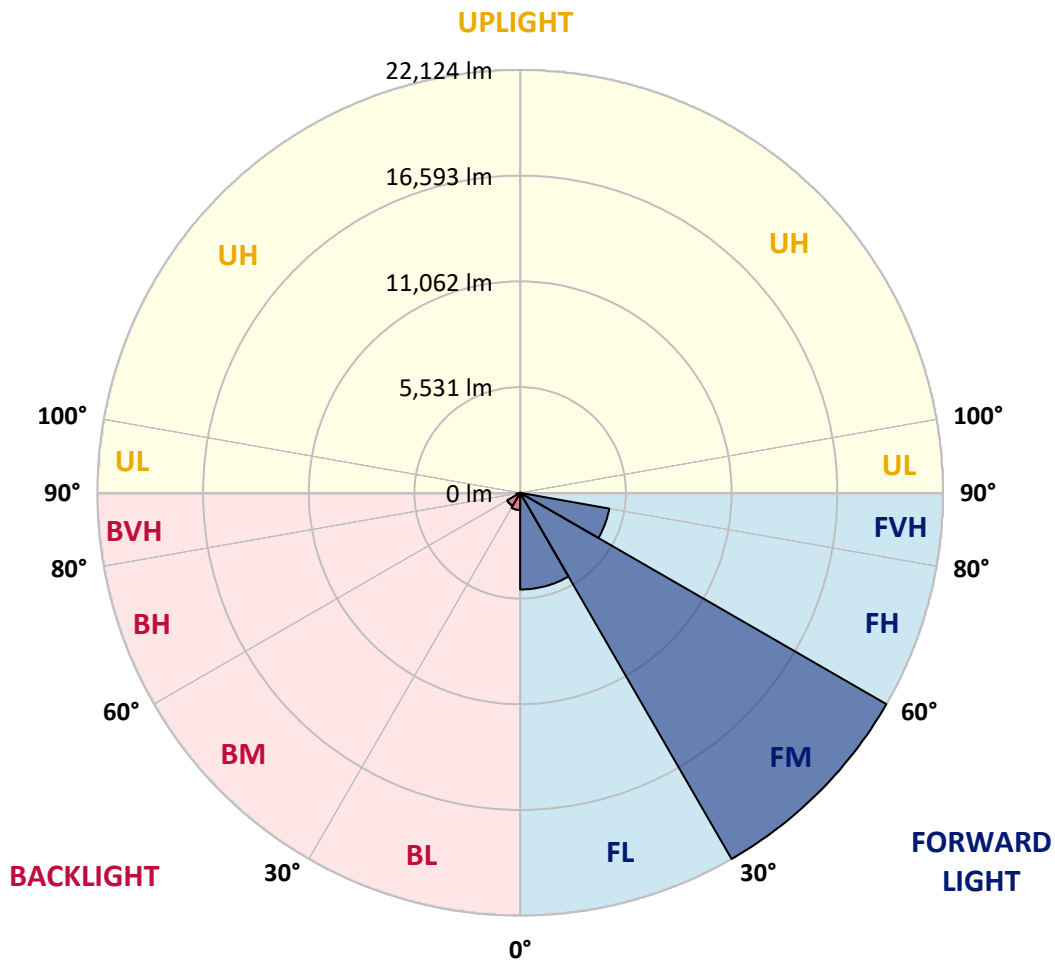
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5059.1	14.9			
FM (30°-60°)	22124.2	65.3			
FH (60°-80°)	4731.5	14.0			G2/5000
FVH (80°-90°)	49.4	0.1			G1/100
BL (0°-30°)	902.6	2.7	B2/1000		
BM (30°-60°)	784.8	2.3	B1/1000		
BH (60°-80°)	202.6	0.6	B1/500		G1/500
BVH (80°-90°)	1.0	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	9530.1	9530.1	9530.1	9530.1	9530.1	9530.1	9530.1	9530.1	9530.1	9530.1	9530.1
2.5°	11276.3	11156.4	11120.5	11096.6	10986.6	10848.7	10660.9	10573.1	10393.2	10103.5	9747.9
5°	12309.2	12287.2	12207.3	12163.4	12045.6	11849.7	11550.0	11406.1	11120.5	10633.0	9995.6
7.5°	11857.6	11995.5	12105.5	12289.3	12521.0	12513.0	12261.2	12111.5	11791.8	11148.4	10271.4
10°	10113.5	10225.3	10405.2	10822.8	11674.0	12425.1	12720.8	12612.9	12357.2	11621.9	10537.1
12.5°	9771.9	9759.8	9791.9	9913.8	10359.3	11430.2	12642.8	12860.7	12808.8	12055.6	10788.9
15°	9953.7	9939.7	9935.8	9977.7	10085.5	10537.1	12057.5	12682.9	13084.4	12457.1	11002.6
17.5°	10463.2	10403.2	10371.2	10337.2	10305.4	10417.3	11354.2	12185.4	13126.5	12808.8	11180.5
20°	11336.3	11236.4	11118.5	10926.7	10746.9	10690.9	11058.6	11674.0	12976.6	13076.4	11296.2
22.5°	12433.1	12305.3	12101.4	11751.8	11386.1	11174.5	11204.4	11512.0	12752.8	13368.1	11350.3
25°	13665.8	13502.1	13230.2	12744.9	12207.3	11831.8	11635.9	11743.8	12650.9	13709.8	11412.2
27.5°	14986.5	14804.6	14449.0	13787.7	13178.3	12670.9	12271.2	12257.4	12824.7	14157.3	11512.0
30°	16295.2	16267.1	15803.6	15104.3	14297.2	13679.7	13104.5	13030.5	13310.1	14776.7	11709.9
32.5°	18041.3	17831.5	17264.0	16544.9	15613.8	14872.6	14191.3	14019.5	14055.4	15498.0	12015.5
35°	20243.0	20013.2	19214.0	18221.1	17180.2	16305.0	15551.8	15318.1	15230.3	16678.7	12530.9
37.5°	21665.5	21661.5	21160.0	20149.2	19032.3	18067.3	17248.1	16974.5	16796.6	18105.2	13330.2
40°	21703.5	21797.5	21863.4	21853.3	21058.2	20169.0	19441.8	19104.3	18690.7	20011.3	14363.1
42.5°	20538.7	20780.4	21361.9	22348.8	22820.4	22466.7	21853.3	21521.8	20906.3	22051.1	15621.9
45°	18964.4	19132.2	20149.2	21967.2	23775.4	24744.4	24276.9	23683.5	22872.3	24178.9	16750.7
47.5°	18259.0	18289.0	18946.3	20942.2	23847.2	26610.4	26894.1	25929.1	24658.5	25893.1	17633.6
50°	16151.3	16205.2	17112.3	19166.1	23004.2	27491.5	29523.3	28608.3	26606.4	27213.9	17955.4
52.5°	12173.4	12249.3	13400.0	16247.1	20686.6	27115.9	31405.5	31183.8	28740.3	27859.1	17973.4
55°	7182.6	7282.5	8381.4	10936.7	16271.1	24726.3	31545.3	32360.5	30424.4	28240.7	17945.4
57.5°	3354.5	3424.5	4053.8	5634.2	10119.4	19541.8	29439.6	31553.2	31353.5	28442.6	18143.2
60°	1782.1	1802.1	1954.0	2439.4	4573.2	12391.2	25329.8	28492.5	30506.4	28722.2	18384.9
62.5°	1362.5	1368.6	1360.7	1418.6	1922.1	5500.3	19146.1	23423.8	27095.9	28512.5	18117.2
65°	1180.8	1190.8	1134.7	1120.8	1232.7	1962.0	11374.2	16696.6	21291.9	25681.4	16293.1
67.5°	1058.9	1063.0	995.0	937.0	957.1	1060.9	4487.4	9140.6	14093.4	18824.5	11809.7
70°	975.0	971.0	897.0	805.2	779.2	725.2	1426.5	3350.5	6735.0	9546.1	5492.2
72.5°	863.1	865.1	829.1	709.2	647.3	507.5	661.3	976.9	2009.9	2601.3	1286.6
75°	765.1	755.2	711.3	635.3	533.5	333.6	327.6	435.6	619.3	615.3	277.8
77.5°	553.4	543.5	557.4	521.5	409.5	215.8	163.9	209.8	251.7	243.7	78.0
80°	405.6	399.6	359.6	433.5	361.6	147.9	101.9	111.8	129.8	110.0	24.0
82.5°	277.8	275.7	253.7	239.8	205.8	89.9	63.9	69.9	83.9	62.0	11.9
85°	43.9	49.9	183.9	145.9	121.9	40.0	43.9	48.0	56.0	34.0	4.0
87.5°	0.0	0.0	85.9	75.9	24.0	16.0	26.1	27.9	27.9	18.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9530.1	9530.1	9530.1	9530.1	9530.1	9530.1	9530.1	9530.1	9530.1	9530.1	9530.1
2.5°	9566.1	9366.3	8996.6	8615.0	8261.4	7839.9	7550.2	7332.3	7080.7	7012.7	7160.6
5°	9632.0	9254.3	8459.2	7594.1	6780.9	5879.9	5190.6	4645.1	4151.6	3983.9	4135.6
7.5°	9735.9	9174.5	7877.9	6453.3	5038.8	3632.2	2669.3	2035.9	1632.3	1512.4	1576.3
10°	9839.9	9058.6	7204.5	5102.7	3168.7	1768.1	1150.8	919.1	833.2	815.1	825.2
12.5°	9925.7	8902.7	6383.4	3628.3	1694.3	947.1	753.1	715.3	703.3	703.3	707.2
15°	9977.7	8666.9	5410.4	2307.6	975.0	715.3	657.3	645.3	645.3	647.3	651.4
17.5°	9971.6	8367.4	4345.6	1396.5	729.2	633.3	599.3	589.4	587.4	591.4	593.4
20°	9897.7	7975.7	3276.6	921.0	635.3	577.4	543.5	525.5	523.4	527.5	531.4
22.5°	9757.8	7492.3	2343.6	709.2	573.4	523.4	481.5	465.5	465.5	469.5	473.4
25°	9588.1	6900.9	1602.3	601.3	517.5	465.5	425.5	411.6	415.6	425.5	427.6
27.5°	9376.2	6235.6	1088.8	515.4	449.5	407.7	377.6	367.6	377.6	391.7	395.7
30°	9194.5	5542.3	777.3	445.5	381.6	351.6	333.6	333.6	347.6	373.6	379.7
32.5°	9054.6	4871.0	599.3	393.5	331.7	305.8	295.7	305.8	327.6	353.7	359.6
35°	9036.6	4317.6	507.5	351.6	295.7	269.8	265.7	283.8	305.8	325.6	329.7
37.5°	9174.5	3806.1	457.5	317.7	263.7	239.8	235.7	257.8	279.7	303.6	309.6
40°	9436.2	3404.4	421.6	285.8	237.7	211.8	203.7	219.7	249.8	281.7	289.8
42.5°	9775.9	3072.8	381.6	253.7	211.8	175.8	165.8	183.9	215.8	249.8	259.7
45°	10099.6	2787.1	337.7	217.7	177.9	135.9	132.0	155.9	171.8	205.8	213.7
47.5°	10277.4	2535.3	299.7	177.9	137.9	110.0	110.0	115.9	132.0	171.8	179.8
50°	10217.4	2333.5	259.7	132.0	95.8	83.9	83.9	81.9	105.9	137.9	143.9
52.5°	10097.6	2217.6	223.8	101.9	65.9	59.9	54.0	59.9	73.9	87.9	89.9
55°	10079.5	2197.8	187.7	81.9	46.0	40.0	30.0	30.0	30.0	27.9	24.0
57.5°	10219.4	2229.8	157.8	65.9	34.0	26.1	16.0	0.0	0.0	0.0	0.0
60°	10363.2	2263.6	135.9	46.0	24.0	14.0	1.9	0.0	0.0	0.0	0.0
62.5°	10123.4	2187.7	113.8	27.9	18.0	6.0	0.0	0.0	0.0	0.0	0.0
65°	8892.9	1862.0	89.9	20.0	11.9	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6325.4	1246.7	59.9	11.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
70°	2887.1	521.5	38.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	617.3	161.9	26.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	125.9	117.9	10.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	40.0	185.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	24.0	133.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	4.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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)