

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: P268660

Luminaire Tested: **GAN-AF-07-LED-U-AFL-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268660
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-07-LED-U-AFL-7027-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1050mA 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: 29944 lumens
Efficiency: N/A
Efficacy: 76.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 391
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

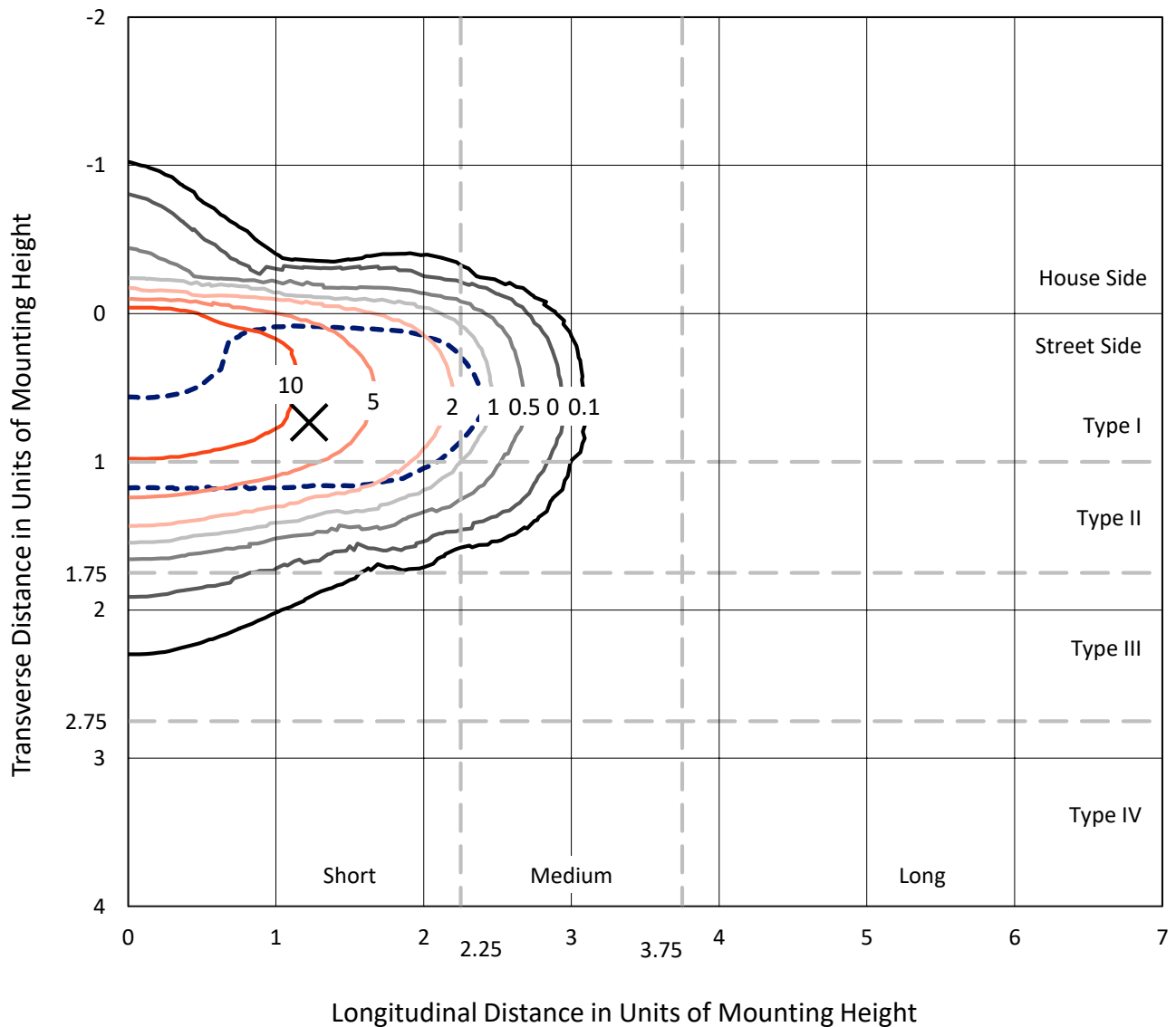


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

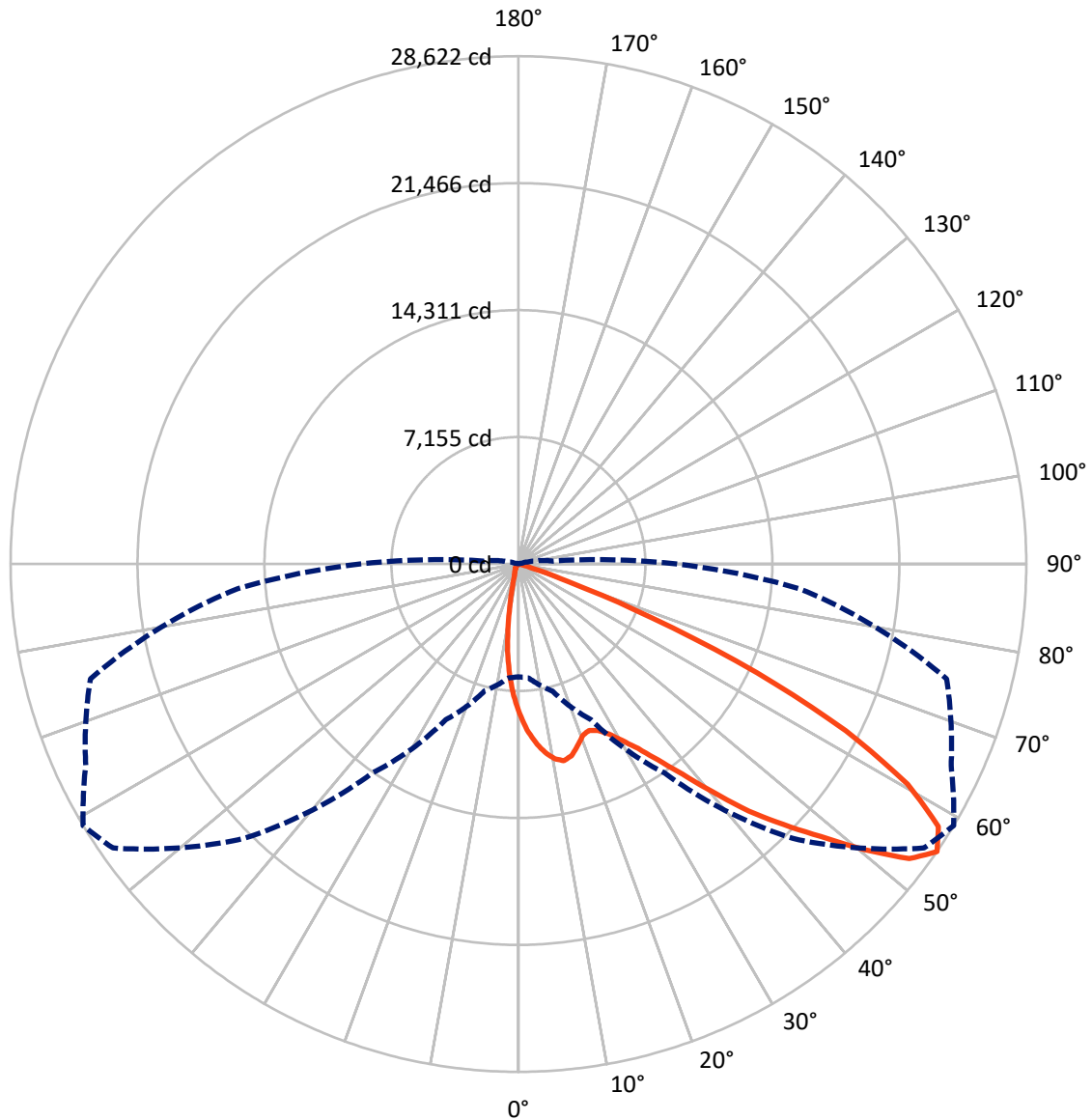


Based on 25 foot mounting height. Maximum calculated value = 16.8 fc
 Type II - Short - Full Cutoff

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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	1672.5	0.0	1672.5
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	28271.5	0.0	28271.5
	% Fixture	94.4	0.0	94.4
Total	Lumens	29944.0	0.0	29944.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	706.0	2.4
10°-20°	1690.4	5.6
20°-30°	2876.5	9.6
30°-40°	4946.9	16.5
40°-50°	7637.4	25.5
50°-60°	7678.1	25.6
60°-70°	3937.4	13.1
70°-80°	426.7	1.4
80°-90°	44.6	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°	29944.0	100.0
0°-180°	29944.0	100.0

Coefficient of Utilization



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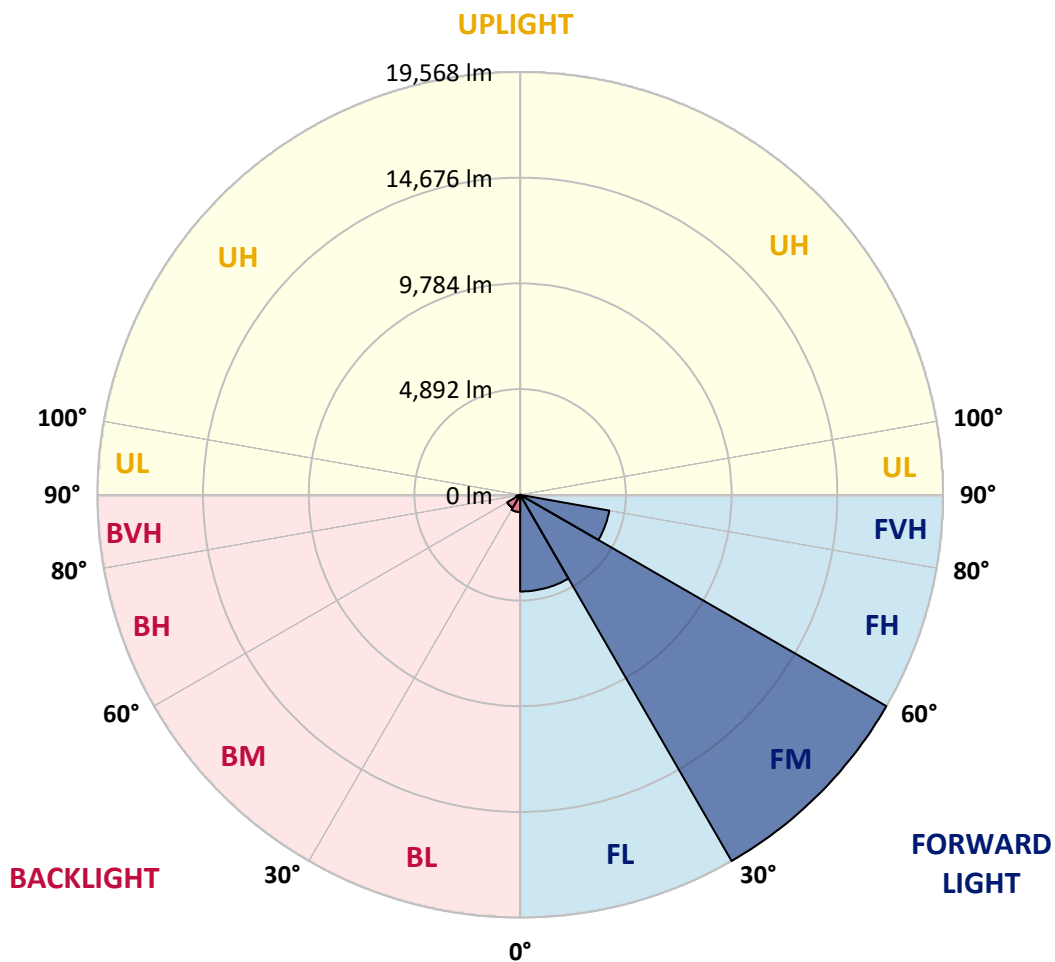
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4474.6	14.9			
FM	(30°-60°)	19568.3	65.3			
FH	(60°-80°)	4184.9	14.0			G2/5000
FVH	(80°-90°)	43.7	0.1			G1/100
BL	(0°-30°)	798.3	2.7	B2/1000		
BM	(30°-60°)	694.1	2.3	B1/1000		
BH	(60°-80°)	179.2	0.6	B1/500		G1/500
BVH	(80°-90°)	0.9	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°	8429.2	8429.2	8429.2	8429.2	8429.2	8429.2	8429.2	8429.2	8429.2	8429.2	8429.2
2.5°	9973.6	9867.5	9835.7	9814.5	9717.3	9595.4	9429.2	9351.5	9192.5	8936.2	8621.8
5°	10887.2	10867.8	10797.1	10758.2	10653.9	10480.7	10215.6	10088.4	9835.7	9404.5	8840.8
7.5°	10487.8	10609.7	10707.0	10869.5	11074.6	11067.5	10844.8	10712.3	10429.5	9860.4	9084.6
10°	8945.1	9044.0	9203.1	9572.5	10325.3	10989.7	11251.2	11155.8	10929.6	10279.3	9319.7
12.5°	8643.0	8632.4	8660.6	8768.4	9162.5	10109.6	11182.3	11374.9	11329.0	10662.7	9542.4
15°	8803.7	8791.4	8787.8	8824.9	8920.3	9319.7	10664.5	11217.7	11572.9	11017.9	9731.5
17.5°	9254.3	9201.3	9173.1	9143.0	9114.8	9213.7	10042.5	10777.7	11610.0	11329.0	9888.7
20°	10026.6	9938.3	9833.9	9664.3	9505.3	9455.7	9780.9	10325.3	11477.5	11565.8	9991.3
22.5°	10996.7	10883.7	10703.5	10394.2	10070.8	9883.4	9910.0	10182.1	11279.5	11823.8	10039.0
25°	12087.1	11942.2	11701.9	11272.4	10797.1	10464.9	10291.7	10387.1	11189.4	12126.0	10093.7
27.5°	13255.1	13094.4	12779.7	12194.9	11655.9	11207.1	10853.6	10841.3	11343.1	12521.7	10182.1
30°	14412.5	14387.9	13977.8	13359.4	12645.5	12099.5	11590.6	11525.2	11772.5	13069.6	10357.1
32.5°	15957.0	15771.5	15269.6	14633.5	13810.1	13154.4	12551.7	12399.8	12431.6	13707.4	10627.4
35°	17904.4	17701.2	16994.3	16116.1	15195.4	14421.4	13755.1	13548.4	13470.8	14751.8	11083.4
37.5°	19162.6	19159.1	18715.5	17821.4	16833.5	15979.9	15255.5	15013.5	14856.1	16013.5	11790.2
40°	19196.2	19279.2	19337.5	19328.7	18625.4	17839.0	17195.7	16897.2	16531.4	17699.5	12703.8
42.5°	18166.0	18379.7	18894.1	19766.9	20183.9	19871.1	19328.7	19035.4	18491.2	19503.6	13817.1
45°	16773.4	16921.9	17821.4	19429.4	21028.7	21885.6	21472.1	20947.3	20229.9	21385.6	14815.4
47.5°	16149.6	16176.1	16757.5	18523.0	21092.3	23536.2	23787.1	22933.5	21809.7	22901.7	15596.6
50°	14285.3	14333.0	15135.4	16951.9	20346.5	24315.5	26112.7	25303.3	23532.7	24069.8	15881.0
52.5°	10767.1	10834.2	11852.1	14370.1	18296.7	23983.3	27777.3	27581.1	25420.0	24640.7	15896.9
55°	6352.8	6441.1	7413.1	9673.2	14391.3	21869.7	27900.9	28621.9	26909.5	24978.1	15872.2
57.5°	2967.0	3028.8	3585.4	4983.3	8950.4	17284.2	26038.5	27908.1	27731.3	25156.7	16047.1
60°	1576.3	1594.0	1728.2	2157.6	4044.9	10959.6	22403.5	25200.8	26982.1	25404.1	16260.9
62.5°	1205.2	1210.5	1203.4	1254.7	1700.0	4865.0	16934.3	20717.6	23965.6	25218.5	16024.1
65°	1044.4	1053.3	1003.8	991.4	1090.4	1735.3	10060.2	14767.7	18832.2	22714.5	14410.8
67.5°	936.6	940.0	880.0	828.7	846.5	938.3	3968.9	8084.6	12465.2	16649.7	10445.4
70°	862.4	858.8	793.5	712.1	689.2	641.5	1261.7	2963.5	5956.9	8443.3	4857.9
72.5°	763.4	765.1	733.3	627.3	572.5	448.9	584.9	864.1	1777.7	2300.7	1138.1
75°	676.9	668.0	629.2	561.9	471.8	295.2	289.9	385.3	547.7	544.3	245.6
77.5°	489.4	480.7	493.0	461.2	362.2	190.8	144.8	185.5	222.7	215.7	68.9
80°	358.8	353.5	318.1	383.4	319.8	130.8	90.1	99.0	114.9	97.1	21.2
82.5°	245.6	243.9	224.4	212.1	181.9	79.5	56.6	61.9	74.2	54.7	10.6
85°	38.8	44.1	162.6	128.9	107.7	35.4	38.8	42.4	49.4	30.1	3.6
87.5°	0.0	0.0	75.9	67.2	21.2	14.2	22.9	24.8	24.8	15.9	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°	8429.2	8429.2	8429.2	8429.2	8429.2	8429.2	8429.2	8429.2	8429.2	8429.2	8429.2
2.5°	8461.0	8284.2	7957.4	7619.9	7307.1	6934.1	6677.9	6485.4	6262.7	6202.5	6333.3
5°	8519.3	8185.3	7482.0	6716.7	5997.5	5200.6	4591.0	4108.6	3672.0	3523.6	3657.9
7.5°	8611.2	8114.6	6967.8	5707.8	4456.6	3212.6	2360.8	1800.7	1443.8	1337.7	1394.3
10°	8703.0	8012.2	6372.1	4513.3	2802.6	1563.9	1017.9	812.8	736.9	721.0	729.9
12.5°	8779.0	7874.3	5645.9	3209.0	1498.6	837.6	666.3	632.6	622.0	622.0	625.6
15°	8824.9	7665.7	4785.4	2040.9	862.4	632.6	581.4	570.8	570.8	572.5	576.1
17.5°	8819.6	7400.6	3843.5	1235.2	645.1	560.2	530.1	521.2	519.5	523.1	524.8
20°	8754.3	7054.3	2898.0	814.7	561.9	510.6	480.7	464.8	462.9	466.5	470.1
22.5°	8630.6	6626.6	2072.7	627.3	507.2	462.9	425.8	411.8	411.8	415.2	418.8
25°	8480.4	6103.7	1417.3	531.8	457.6	411.8	376.4	364.1	367.5	376.4	378.1
27.5°	8293.1	5515.1	963.1	455.9	397.6	360.5	334.0	325.1	334.0	346.3	349.9
30°	8132.3	4902.1	687.5	394.0	337.6	311.1	295.2	295.2	307.5	330.4	335.7
32.5°	8008.6	4308.2	530.1	348.2	293.3	270.4	261.5	270.4	289.9	312.8	318.1
35°	7992.7	3818.8	448.9	311.1	261.5	238.6	235.0	250.9	270.4	288.0	291.6
37.5°	8114.6	3366.4	404.6	281.0	233.3	212.1	208.5	228.0	247.5	268.7	274.0
40°	8346.2	3011.2	372.8	252.8	210.4	187.2	180.2	194.5	221.0	249.2	256.2
42.5°	8646.5	2717.8	337.6	224.4	187.2	155.4	146.7	162.6	190.8	221.0	229.7
45°	8932.7	2465.0	298.6	192.5	157.3	120.2	116.6	137.8	152.0	181.9	189.1
47.5°	9089.9	2242.4	265.1	157.3	121.9	97.1	97.1	102.4	116.6	152.0	159.0
50°	9036.9	2063.9	229.7	116.6	84.8	74.2	74.2	72.5	93.7	121.9	127.2
52.5°	8930.9	1961.4	197.9	90.1	58.3	53.0	47.7	53.0	65.3	77.8	79.5
55°	8915.0	1943.8	166.0	72.5	40.7	35.4	26.5	26.5	26.5	24.8	21.2
57.5°	9038.7	1972.0	139.5	58.3	30.1	22.9	14.2	0.0	0.0	0.0	0.0
60°	9166.0	2002.1	120.2	40.7	21.2	12.3	1.7	0.0	0.0	0.0	0.0
62.5°	8953.9	1934.9	100.7	24.8	15.9	5.3	0.0	0.0	0.0	0.0	0.0
65°	7865.4	1647.0	79.5	17.6	10.6	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5594.6	1102.7	53.0	10.6	1.7	0.0	0.0	0.0	0.0	0.0	0.0
70°	2553.5	461.2	33.5	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	546.0	143.1	22.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	111.3	104.3	8.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	35.4	164.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	21.2	118.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.6	17.6	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)