

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: P267298

Luminaire Tested: **GAN-AF-10-LED-U-AFL-7027-1200-HSS-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P267298
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-7027-1200-HSS-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 1200mA 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: 45966.7 lumens
Efficiency: N/A
Efficacy: 71.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 640
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

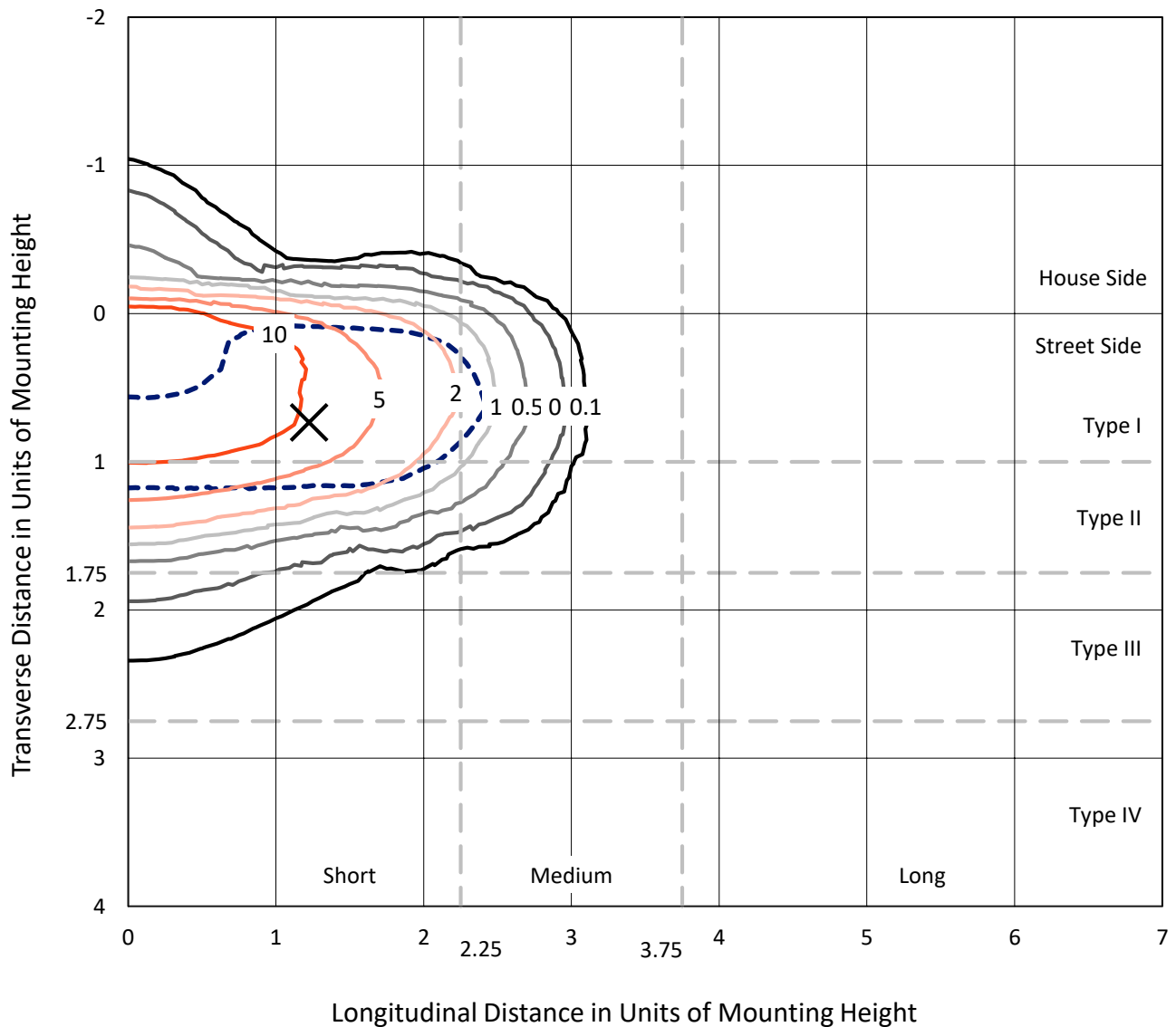


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

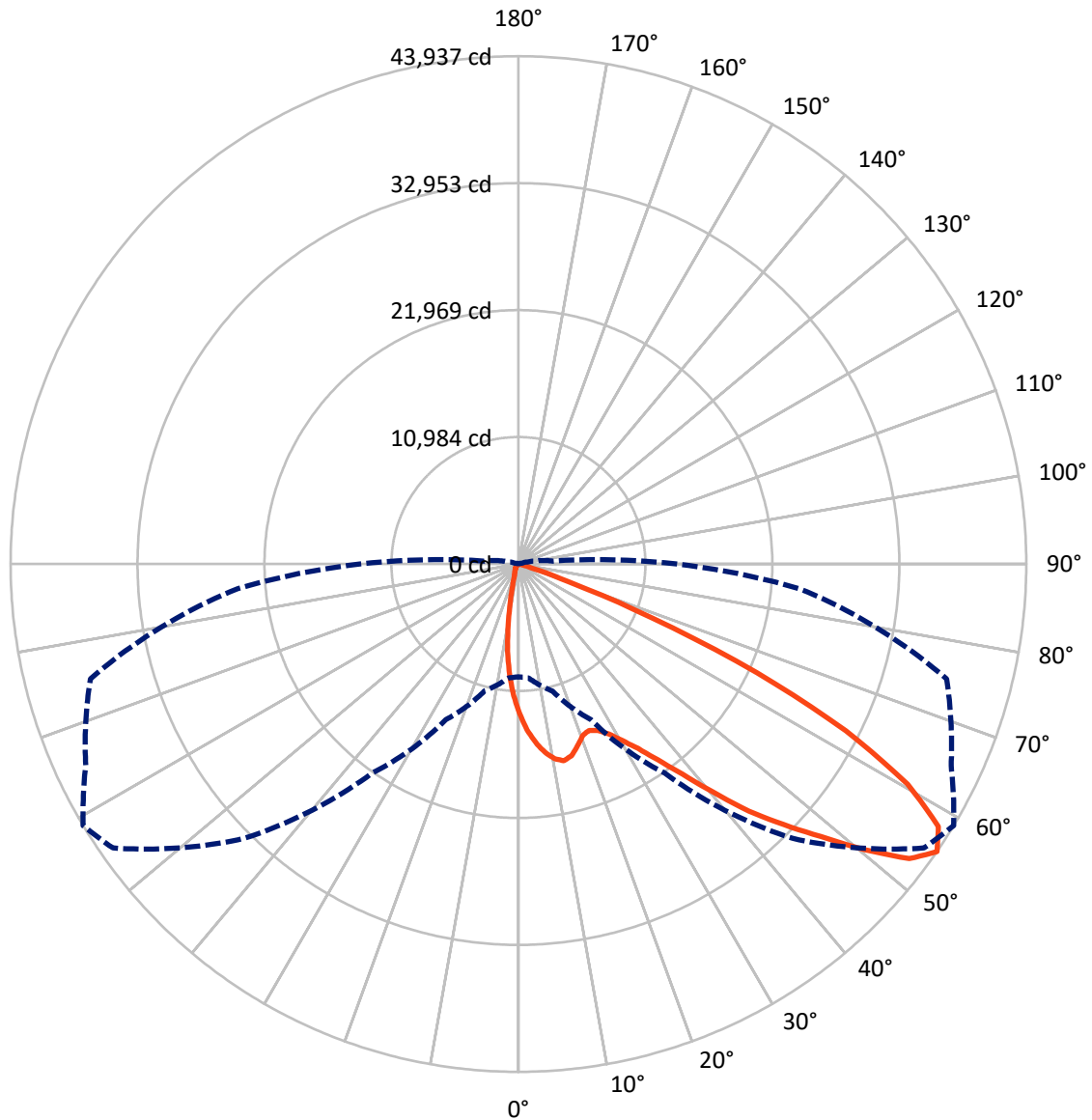


Based on 30 foot mounting height. Maximum calculated value = 17.9 fc
 Type II - Short - Full Cutoff

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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	2567.5	0.0	2567.5
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	43399.2	0.0	43399.2
	% Fixture	94.4	0.0	94.4
Total	Lumens	45966.7	0.0	45966.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1083.8	2.4
10°-20°	2595.0	5.6
20°-30°	4415.6	9.6
30°-40°	7593.9	16.5
40°-50°	11724.2	25.5
50°-60°	11786.5	25.6
60°-70°	6044.2	13.1
70°-80°	655.0	1.4
80°-90°	68.5	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°	45966.7	100.0
0°-180°	45966.7	100.0

Coefficient of Utilization



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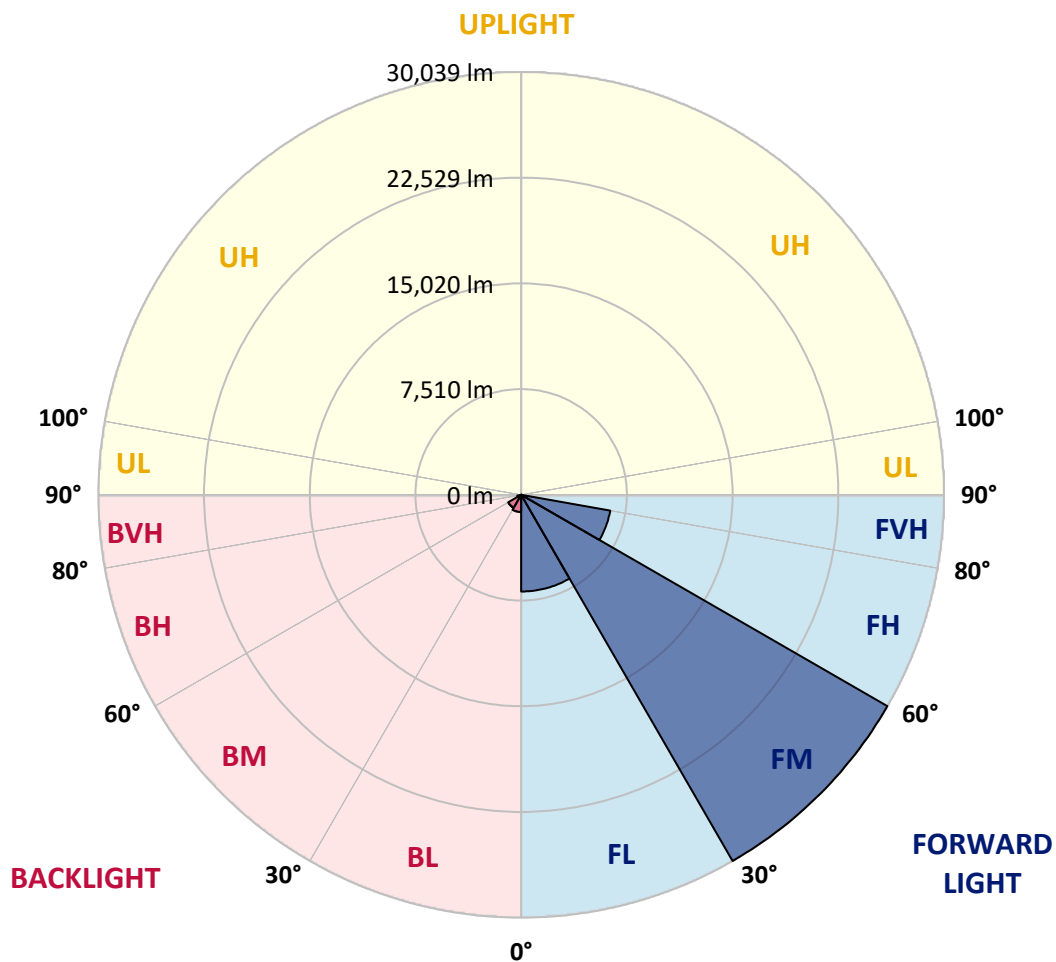
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6868.9	14.9			
FM	(30°-60°)	30039.1	65.3			
FH	(60°-80°)	6424.2	14.0			G3/7500
FVH	(80°-90°)	67.1	0.1			G1/100
BL	(0°-30°)	1225.5	2.7	B3/2500		
BM	(30°-60°)	1065.6	2.3	B2/2500		
BH	(60°-80°)	275.1	0.6	B1/500		G1/500
BVH	(80°-90°)	1.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	12939.5	12939.5	12939.5	12939.5	12939.5	12939.5	12939.5	12939.5	12939.5	12939.5	12939.5
2.5°	15310.4	15147.6	15098.7	15066.3	14917.1	14729.8	14474.7	14355.5	14111.4	13717.9	13235.2
5°	16712.7	16683.0	16574.4	16514.8	16354.7	16088.9	15682.0	15486.7	15098.7	14436.9	13571.6
7.5°	16099.8	16286.9	16436.1	16685.7	17000.3	16989.5	16647.7	16444.3	16010.2	15136.7	13945.8
10°	13731.5	13883.5	14127.6	14694.6	15850.1	16870.1	17271.6	17125.1	16778.0	15779.6	14306.6
12.5°	13267.6	13251.3	13294.8	13460.4	14065.2	15519.2	17165.8	17461.6	17390.9	16368.2	14648.4
15°	13514.6	13495.5	13490.1	13547.1	13693.7	14306.6	16371.0	17220.1	17765.3	16913.6	14938.8
17.5°	14206.2	14124.9	14081.6	14035.4	13992.0	14144.0	15416.2	16544.7	17822.3	17390.9	15180.1
20°	15391.6	15256.0	15096.0	14835.6	14591.4	14515.5	15014.7	15850.1	17618.8	17754.5	15337.5
22.5°	16880.9	16707.3	16430.7	15956.0	15459.6	15172.1	15212.6	15630.4	17315.0	18150.6	15410.8
25°	18554.8	18332.3	17963.3	17304.1	16574.4	16064.5	15798.6	15945.2	17176.6	18614.4	15494.9
27.5°	20347.8	20101.0	19618.1	18720.1	17892.8	17203.8	16661.3	16642.3	17412.7	19222.0	15630.4
30°	22124.5	22086.5	21457.3	20507.9	19412.0	18573.6	17792.4	17692.1	18071.8	20062.9	15899.0
32.5°	24495.4	24210.6	23440.3	22463.6	21199.6	20193.2	19268.1	19034.8	19083.7	21042.2	16313.9
35°	27484.8	27172.9	26087.8	24739.6	23326.3	22138.1	21115.5	20798.1	20678.8	22645.5	17013.9
37.5°	29416.3	29410.8	28730.0	27357.3	25841.0	24530.7	23418.5	23046.8	22805.5	24582.3	18099.1
40°	29467.8	29595.3	29684.9	29671.2	28591.7	27384.4	26397.1	25938.6	25377.1	27170.1	19501.5
42.5°	27886.4	28214.5	29003.9	30343.9	30984.2	30504.0	29671.2	29221.0	28385.5	29939.8	21210.4
45°	25748.7	25976.6	27357.3	29825.9	32280.9	33596.5	32961.7	32156.1	31054.6	32828.7	22743.1
47.5°	24791.2	24831.8	25724.4	28434.3	32378.5	36130.1	36515.4	35205.0	33479.8	35156.2	23942.0
50°	21929.2	22002.5	23234.0	26022.7	31233.8	37326.5	40085.2	38842.8	36124.7	36949.4	24378.8
52.5°	16528.4	16631.4	18193.9	22059.5	28087.0	36816.4	42640.6	42339.5	39021.8	37825.6	24403.3
55°	9752.1	9887.7	11379.6	14849.3	22092.0	33572.0	42830.5	43937.2	41308.6	38343.7	24365.3
57.5°	4554.5	4649.5	5504.1	7649.7	13739.7	26532.7	39971.3	42841.2	42570.0	38617.6	24633.9
60°	2419.8	2446.9	2653.1	3312.2	6209.4	16823.9	34391.3	38685.5	41419.8	38997.4	24962.0
62.5°	1850.1	1858.1	1847.4	1926.0	2609.5	7468.0	25995.5	31803.5	36789.2	38712.5	24598.6
65°	1603.1	1616.8	1540.9	1521.8	1673.7	2663.8	15443.2	22669.8	28909.0	34868.7	22121.9
67.5°	1437.6	1443.1	1351.0	1272.2	1299.4	1440.4	6092.7	12410.4	19135.2	25558.8	16034.7
70°	1323.8	1318.4	1218.0	1093.1	1057.9	984.7	1936.8	4549.1	9144.4	12961.1	7457.1
72.5°	1171.8	1174.7	1125.8	963.1	878.9	689.0	897.9	1326.4	2729.0	3531.9	1746.9
75°	1039.0	1025.3	965.7	862.6	724.4	453.0	444.9	591.4	841.0	835.6	377.1
77.5°	751.4	737.9	756.8	708.0	556.1	292.9	222.4	284.9	341.7	330.9	105.8
80°	550.8	542.5	488.3	588.7	491.1	200.7	138.3	152.0	176.3	149.2	32.6
82.5°	377.1	374.4	344.5	325.5	279.5	122.1	86.7	95.0	113.9	84.1	16.3
85°	59.6	67.8	249.5	198.0	165.5	54.3	59.6	65.0	75.9	46.2	5.4
87.5°	0.0	0.0	116.6	103.0	32.6	21.6	35.3	38.0	38.0	24.4	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°	12939.5	12939.5	12939.5	12939.5	12939.5	12939.5	12939.5	12939.5	12939.5	12939.5	12939.5
2.5°	12988.4	12717.0	12215.2	11697.1	11217.0	10644.6	10251.2	9955.6	9613.8	9521.5	9722.3
5°	13077.9	12565.1	11485.5	10310.8	9206.8	7983.3	7047.6	6307.0	5637.0	5409.1	5615.2
7.5°	13218.9	12456.5	10696.1	8762.0	6841.3	4931.6	3624.1	2764.3	2216.3	2053.4	2140.3
10°	13360.0	12299.2	9782.0	6928.2	4302.3	2400.7	1562.5	1247.8	1131.1	1106.8	1120.4
12.5°	13476.6	12087.8	8666.9	4926.2	2300.4	1285.8	1022.7	971.2	954.9	954.9	960.3
15°	13547.1	11767.5	7345.9	3133.2	1323.8	971.2	892.5	876.1	876.1	878.9	884.3
17.5°	13539.0	11360.7	5900.1	1896.1	990.1	859.9	813.9	800.2	797.5	802.9	805.7
20°	13438.6	10829.0	4448.8	1250.5	862.6	784.0	737.9	713.4	710.6	716.2	721.6
22.5°	13248.7	10172.5	3181.9	963.1	778.6	710.6	653.7	632.0	632.0	637.4	642.8
25°	13018.1	9369.6	2175.5	816.5	702.6	632.0	577.8	558.8	564.2	577.8	580.6
27.5°	12730.6	8466.3	1478.4	699.9	610.4	553.4	512.8	499.1	512.8	531.6	537.0
30°	12483.7	7524.9	1055.1	604.9	518.1	477.4	453.0	453.0	472.0	507.3	515.4
32.5°	12293.8	6613.5	813.9	534.4	450.3	415.0	401.5	415.0	444.9	480.1	488.3
35°	12269.4	5862.1	689.0	477.4	401.5	366.1	360.8	385.3	415.0	442.1	447.5
37.5°	12456.5	5167.6	621.2	431.4	358.1	325.5	320.1	349.9	379.8	412.3	420.4
40°	12811.9	4622.4	572.4	387.9	322.9	287.5	276.7	298.3	339.1	382.5	393.4
42.5°	13273.1	4172.1	518.1	344.5	287.5	238.7	225.1	249.5	292.9	339.1	352.7
45°	13712.5	3784.2	458.5	295.7	241.5	184.4	179.0	211.6	233.3	279.5	290.2
47.5°	13954.0	3442.3	406.9	241.5	187.1	149.2	149.2	157.4	179.0	233.3	244.1
50°	13872.6	3168.4	352.7	179.0	130.3	113.9	113.9	111.2	143.8	187.1	195.3
52.5°	13709.8	3011.1	303.8	138.3	89.6	81.3	73.2	81.3	100.4	119.4	122.1
55°	13685.5	2983.9	254.9	111.2	62.4	54.3	40.8	40.8	40.8	38.0	32.6
57.5°	13875.3	3027.4	214.2	89.6	46.2	35.3	21.6	0.0	0.0	0.0	0.0
60°	14070.6	3073.6	184.4	62.4	32.6	19.0	2.8	0.0	0.0	0.0	0.0
62.5°	13745.1	2970.3	154.6	38.0	24.4	8.2	0.0	0.0	0.0	0.0	0.0
65°	12074.1	2528.2	122.1	27.0	16.3	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	8588.3	1692.6	81.3	16.3	2.8	0.0	0.0	0.0	0.0	0.0	0.0
70°	3919.8	708.0	51.6	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	838.2	219.7	35.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	170.9	160.1	13.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	54.3	252.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	32.6	181.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	5.4	27.0	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)