

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: P268819

Luminaire Tested: **GAN-AF-09-LED-U-AFL-7027-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268819
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-09-LED-U-AFL-7027-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 41518.6 lumens
Efficiency: N/A
Efficacy: 72.2 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): 575
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

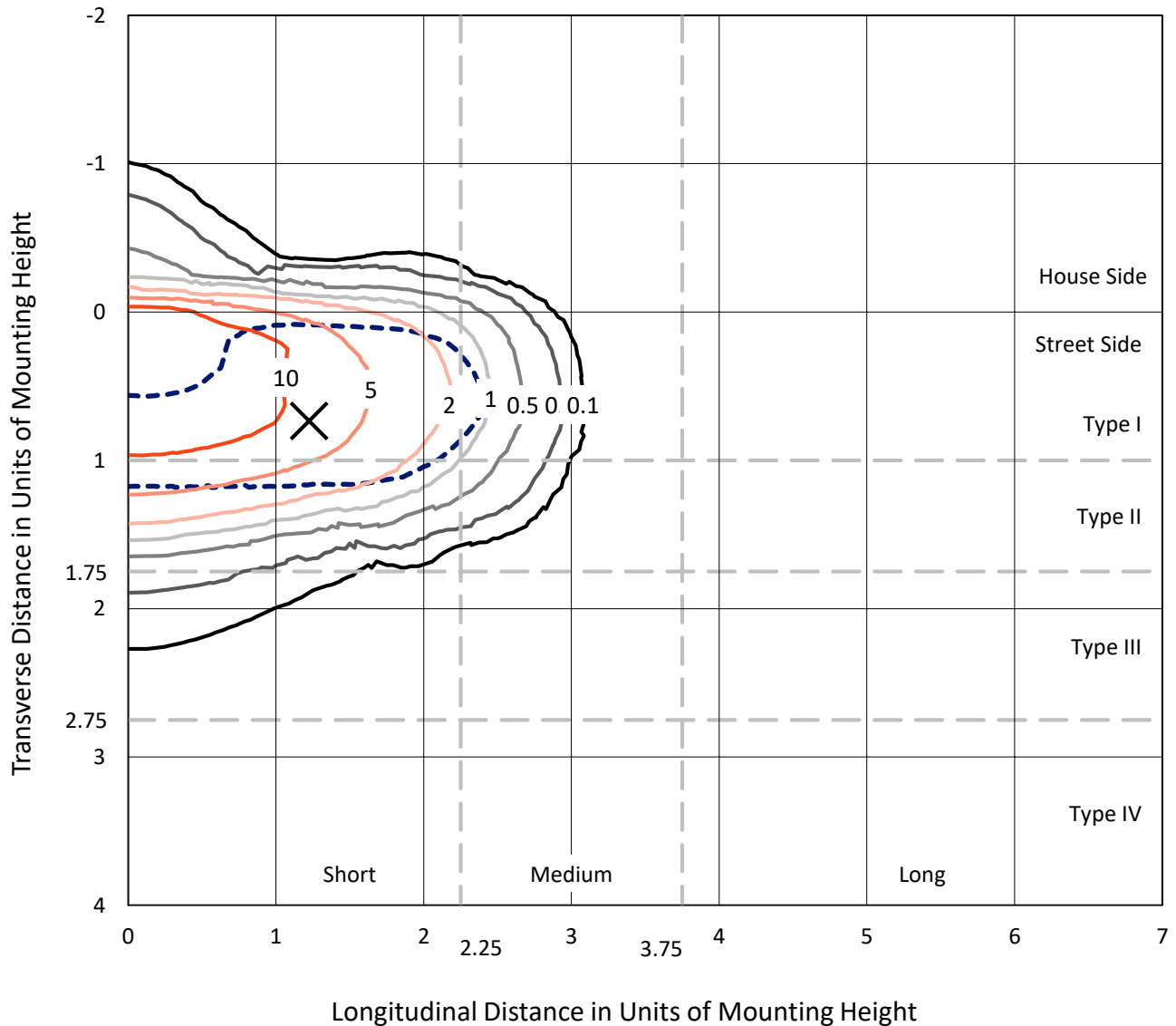


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

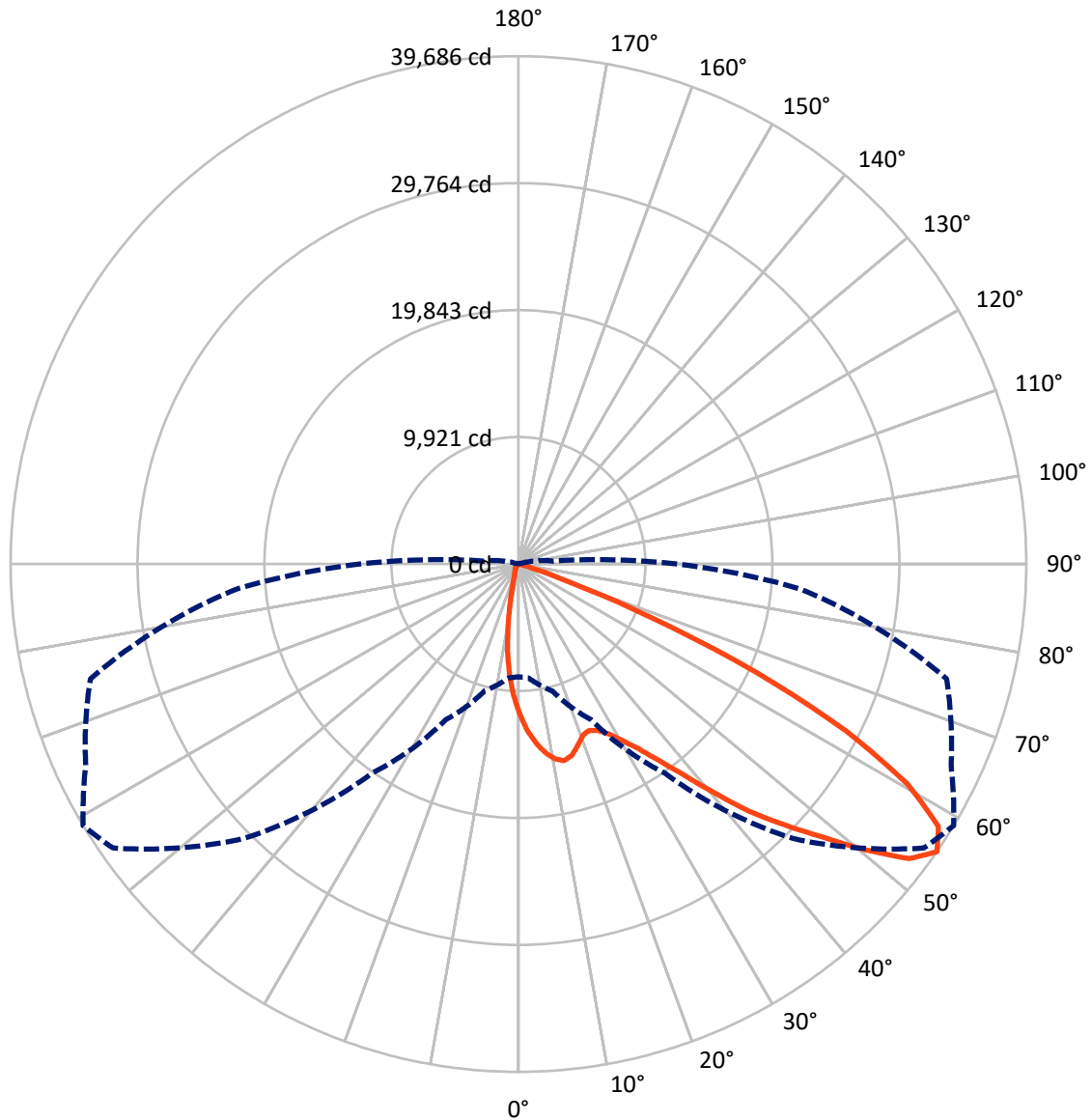


Based on 30 foot mounting height. Maximum calculated value = 16.2 fc
 Type II - Short - Full Cutoff

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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	2319.1	0.0	2319.1
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	39199.6	0.0	39199.6
	% Fixture	94.4	0.0	94.4
Total	Lumens	41518.6	0.0	41518.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	978.9	2.4
10°-20°	2343.9	5.6
20°-30°	3988.3	9.6
30°-40°	6859.1	16.5
40°-50°	10589.7	25.5
50°-60°	10646.0	25.6
60°-70°	5459.3	13.1
70°-80°	591.6	1.4
80°-90°	61.8	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°	41518.6	100.0
0°-180°	41518.6	100.0

Coefficient of Utilization



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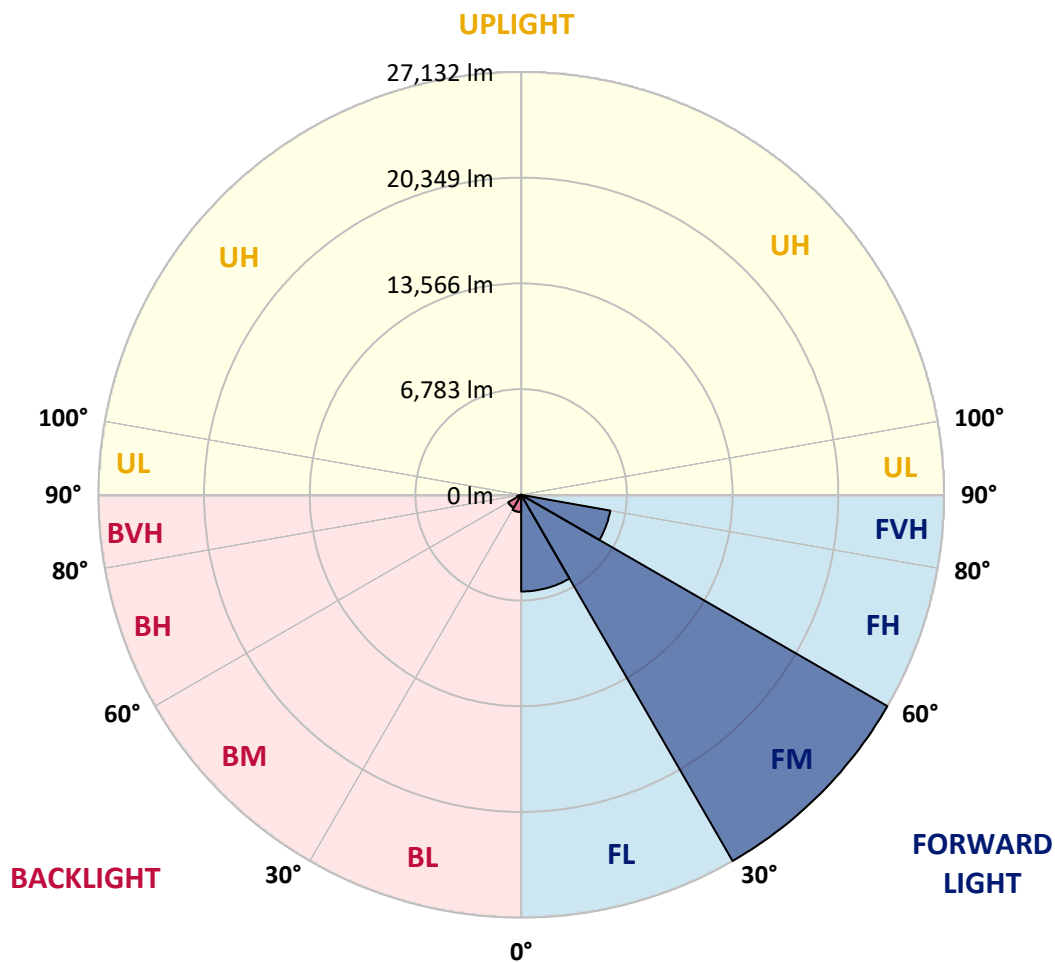
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6204.2	14.9			
FM (30°-60°)	27132.2	65.3			
FH (60°-80°)	5802.5	14.0			G3/7500
FVH (80°-90°)	60.6	0.1			G1/100
BL (0°-30°)	1106.9	2.7	B3/2500		
BM (30°-60°)	962.4	2.3	B1/1000		
BH (60°-80°)	248.4	0.6	B1/500		G1/500
BVH (80°-90°)	1.3	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°	11687.4	11687.4	11687.4	11687.4	11687.4	11687.4	11687.4	11687.4	11687.4	11687.4	11687.4
2.5°	13828.8	13681.7	13637.7	13608.2	13473.5	13304.4	13074.1	12966.3	12745.8	12390.5	11954.5
5°	15095.6	15068.6	14970.6	14916.6	14772.1	14532.1	14164.5	13988.0	13637.7	13039.8	12258.2
7.5°	14541.9	14710.9	14845.6	15071.0	15355.3	15345.4	15036.6	14852.9	14460.9	13671.9	12596.4
10°	12402.8	12540.0	12760.6	13272.5	14316.4	15237.7	15600.2	15467.9	15154.3	14252.7	12922.2
12.5°	11983.7	11969.0	12008.4	12157.8	12704.2	14017.4	15504.7	15771.8	15708.1	14784.3	13231.0
15°	12206.8	12189.6	12184.7	12236.3	12368.6	12922.2	14786.8	15553.8	16046.2	15276.8	13493.1
17.5°	12831.6	12758.1	12718.8	12677.2	12638.1	12775.2	13924.4	14943.7	16097.6	15708.1	13711.2
20°	13902.3	13779.8	13635.3	13399.9	13179.6	13110.9	13561.7	14316.4	15914.0	16036.5	13853.3
22.5°	15247.4	15090.6	14840.7	14412.0	13963.6	13703.9	13740.6	14117.9	15639.5	16394.2	13919.4
25°	16759.1	16558.3	16225.0	15629.7	14970.6	14510.0	14269.8	14402.2	15514.4	16813.0	13995.5
27.5°	18378.8	18155.9	17719.6	16908.6	16161.3	15539.1	15048.9	15031.9	15727.6	17361.9	14117.9
30°	19983.7	19949.3	19380.9	18523.3	17533.5	16776.3	16070.7	15980.0	16323.1	18121.5	14360.5
32.5°	22125.2	21867.8	21172.1	20289.8	19148.1	18239.1	17403.7	17192.9	17236.9	19006.0	14735.3
35°	24825.2	24543.4	23563.4	22345.6	21069.0	19995.9	19072.2	18785.5	18677.6	20454.0	15367.6
37.5°	26569.7	26564.8	25949.8	24710.0	23340.4	22157.0	21152.4	20816.8	20598.7	22203.4	16347.5
40°	26616.3	26731.5	26812.3	26800.0	25824.8	24734.6	23842.6	23428.5	22921.4	24540.9	17614.3
42.5°	25187.8	25484.2	26197.4	27407.6	27985.9	27552.3	26800.0	26393.3	25638.6	27042.5	19158.0
45°	23257.1	23462.9	24710.0	26939.7	29157.0	30345.5	29772.0	29044.4	28049.7	29652.1	20542.4
47.5°	22392.2	22428.9	23235.0	25682.7	29245.3	32633.8	32981.8	31798.5	30240.2	31754.2	21625.3
50°	19807.3	19873.5	20985.8	23504.5	28211.4	33714.5	36206.2	35084.1	32629.0	33373.9	22019.8
52.5°	14928.9	15022.0	16433.4	19924.9	25369.2	33253.7	38514.3	38242.4	35245.8	34165.2	22041.8
55°	8808.4	8930.9	10278.4	13412.2	19954.2	30323.4	38685.9	39685.5	37311.3	34633.3	22007.4
57.5°	4113.9	4199.5	4971.4	6909.6	12410.2	23965.3	36103.4	38695.7	38450.6	34880.6	22250.1
60°	2185.5	2210.1	2396.3	2991.6	5608.5	15196.0	31063.3	34942.0	37411.7	35223.7	22546.5
62.5°	1670.9	1678.4	1668.6	1739.6	2357.1	6745.4	23480.1	28725.9	33229.4	34966.4	22218.1
65°	1448.1	1460.4	1391.7	1374.5	1511.8	2406.1	13948.8	20476.1	26111.6	31494.5	19981.2
67.5°	1298.6	1303.5	1220.2	1149.1	1173.6	1301.0	5503.0	11209.6	17283.6	23085.5	14483.1
70°	1195.6	1190.9	1100.2	987.4	955.5	889.4	1749.4	4108.9	8259.6	11706.9	6735.5
72.5°	1058.5	1060.9	1016.8	869.7	793.8	622.3	811.0	1198.1	2464.9	3190.2	1578.0
75°	938.4	926.2	872.3	779.2	654.1	409.2	401.8	534.1	759.5	754.7	340.5
77.5°	678.7	666.5	683.6	639.6	502.3	264.6	201.0	257.3	308.7	299.0	95.6
80°	497.4	490.0	441.1	531.6	443.5	181.3	125.0	137.3	159.3	134.7	29.5
82.5°	340.5	338.1	311.2	294.0	252.3	110.2	78.4	85.8	102.9	75.9	14.7
85°	53.9	61.3	225.5	178.9	149.5	49.0	53.9	58.7	68.6	41.6	4.9
87.5°	0.0	0.0	105.3	93.2	29.5	19.7	31.9	34.2	34.2	22.1	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°	11687.4	11687.4	11687.4	11687.4	11687.4	11687.4	11687.4	11687.4	11687.4	11687.4	11687.4
2.5°	11731.4	11486.4	11033.2	10565.1	10131.4	9614.5	9259.2	8992.2	8683.5	8600.2	8781.4
5°	11812.4	11349.2	10374.0	9313.1	8315.9	7210.9	6365.6	5696.6	5091.5	4885.6	5071.9
7.5°	11939.7	11251.2	9661.0	7914.1	6179.4	4454.4	3273.5	2496.7	2001.9	1854.8	1933.2
10°	12067.1	11109.1	8835.3	6257.8	3886.0	2168.4	1411.2	1127.1	1021.7	999.6	1011.9
12.5°	12172.5	10918.0	7828.3	4449.6	2077.8	1161.4	923.6	877.1	862.5	862.5	867.4
15°	12236.3	10628.8	6635.2	2829.9	1195.6	877.1	806.0	791.3	791.3	793.8	798.8
17.5°	12228.8	10261.3	5329.1	1712.7	894.4	776.8	735.1	722.7	720.4	725.2	727.6
20°	12138.2	9781.1	4018.3	1129.4	779.2	708.1	666.5	644.4	642.0	646.9	651.7
22.5°	11966.7	9188.1	2874.0	869.7	703.3	642.0	590.5	571.0	571.0	575.9	580.7
25°	11758.5	8462.9	1965.0	737.5	634.7	571.0	521.8	504.8	509.7	521.8	524.3
27.5°	11498.7	7647.0	1335.3	632.1	551.3	499.8	463.0	450.8	463.0	480.2	485.2
30°	11275.7	6796.8	953.1	546.3	467.9	431.2	409.2	409.2	426.3	458.1	465.5
32.5°	11104.2	5973.5	735.1	482.7	406.8	375.0	362.6	375.0	401.8	433.7	441.1
35°	11082.1	5294.8	622.3	431.2	362.6	330.8	325.8	348.0	375.0	399.3	404.2
37.5°	11251.2	4667.7	561.1	389.5	323.4	294.0	289.2	316.1	343.1	372.4	379.8
40°	11572.1	4175.1	517.0	350.3	291.6	259.7	249.9	269.5	306.3	345.5	355.3
42.5°	11988.7	3768.4	467.9	311.2	259.7	215.7	203.3	225.5	264.6	306.3	318.4
45°	12385.7	3418.1	414.1	267.1	218.1	166.6	161.8	191.1	210.7	252.3	262.1
47.5°	12603.7	3109.3	367.5	218.1	169.2	134.7	134.7	142.1	161.8	210.7	220.5
50°	12530.2	2861.8	318.4	161.8	117.6	102.9	102.9	100.5	129.8	169.2	176.3
52.5°	12383.1	2719.7	274.4	125.0	80.8	73.5	66.1	73.5	90.6	107.7	110.2
55°	12361.1	2695.2	230.3	100.5	56.4	49.0	36.7	36.7	36.7	34.2	29.5
57.5°	12532.7	2734.4	193.6	80.8	41.6	31.9	19.7	0.0	0.0	0.0	0.0
60°	12709.1	2776.0	166.6	56.4	29.5	17.2	2.4	0.0	0.0	0.0	0.0
62.5°	12415.0	2683.0	139.6	34.2	22.1	7.4	0.0	0.0	0.0	0.0	0.0
65°	10905.8	2283.6	110.2	24.6	14.7	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	7757.3	1528.9	73.5	14.7	2.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	3540.5	639.6	46.5	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	757.1	198.4	31.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	154.4	144.5	12.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	49.0	227.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	29.5	164.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	4.9	24.6	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)