

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: P324861

Luminaire Tested: **GAN-SA7D-750-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324861
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7D-750-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 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: 44927 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

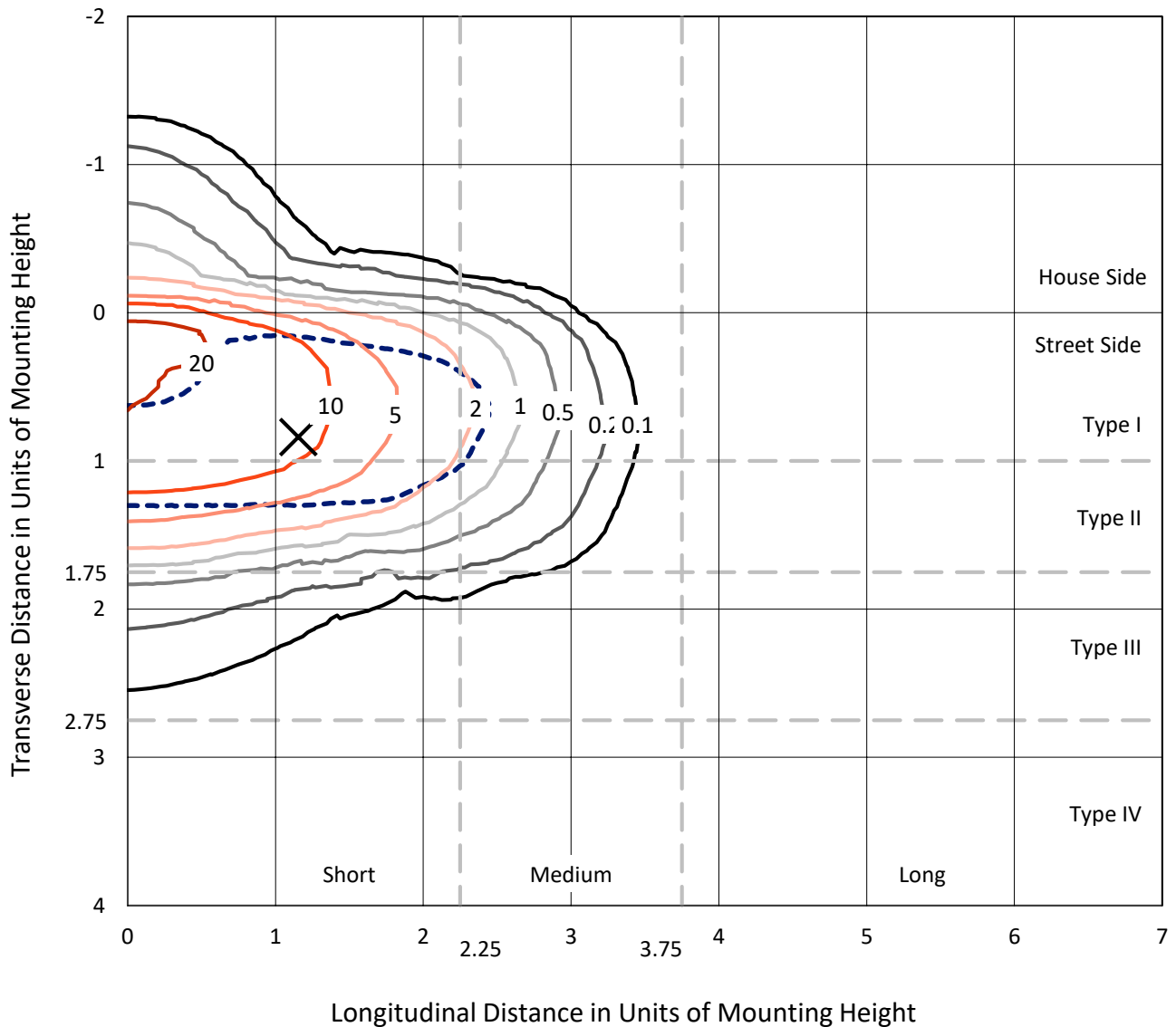
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

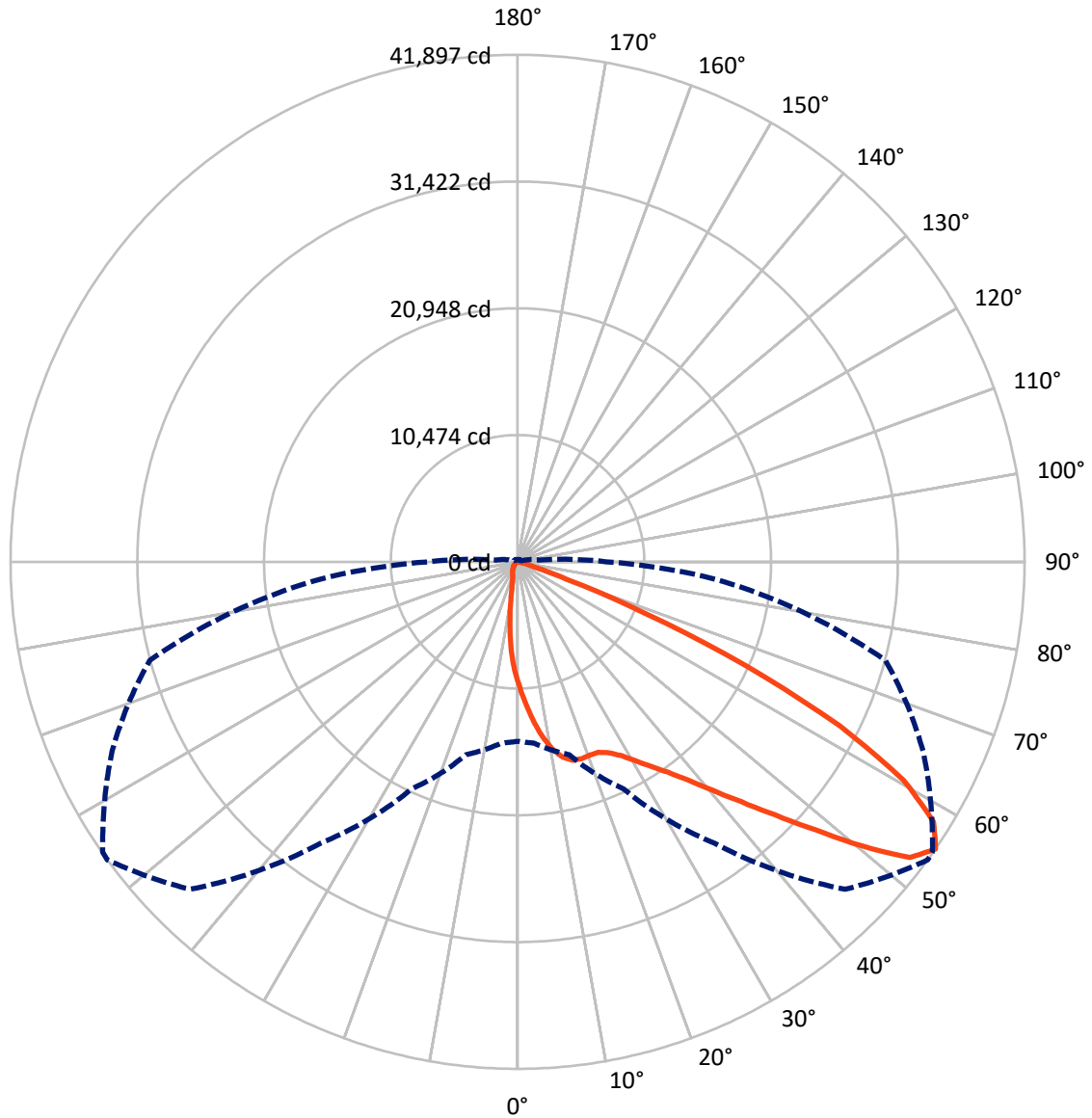
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2241.5	0.0	2241.5
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	42685.5	0.0	42685.5
	% Fixture	95.0	0.0	95.0
Total	Lumens	44927.0	0.0	44927.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	926.6	2.1
10°-20°	2541.2	5.7
20°-30°	4338.6	9.7
30°-40°	6962.8	15.5
40°-50°	11126.5	24.8
50°-60°	11922.4	26.5
60°-70°	6121.3	13.6
70°-80°	927.2	2.1
80°-90°	60.4	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°	44927.0	100.0
0°-180°	44927.0	100.0

Coefficient of Utilization



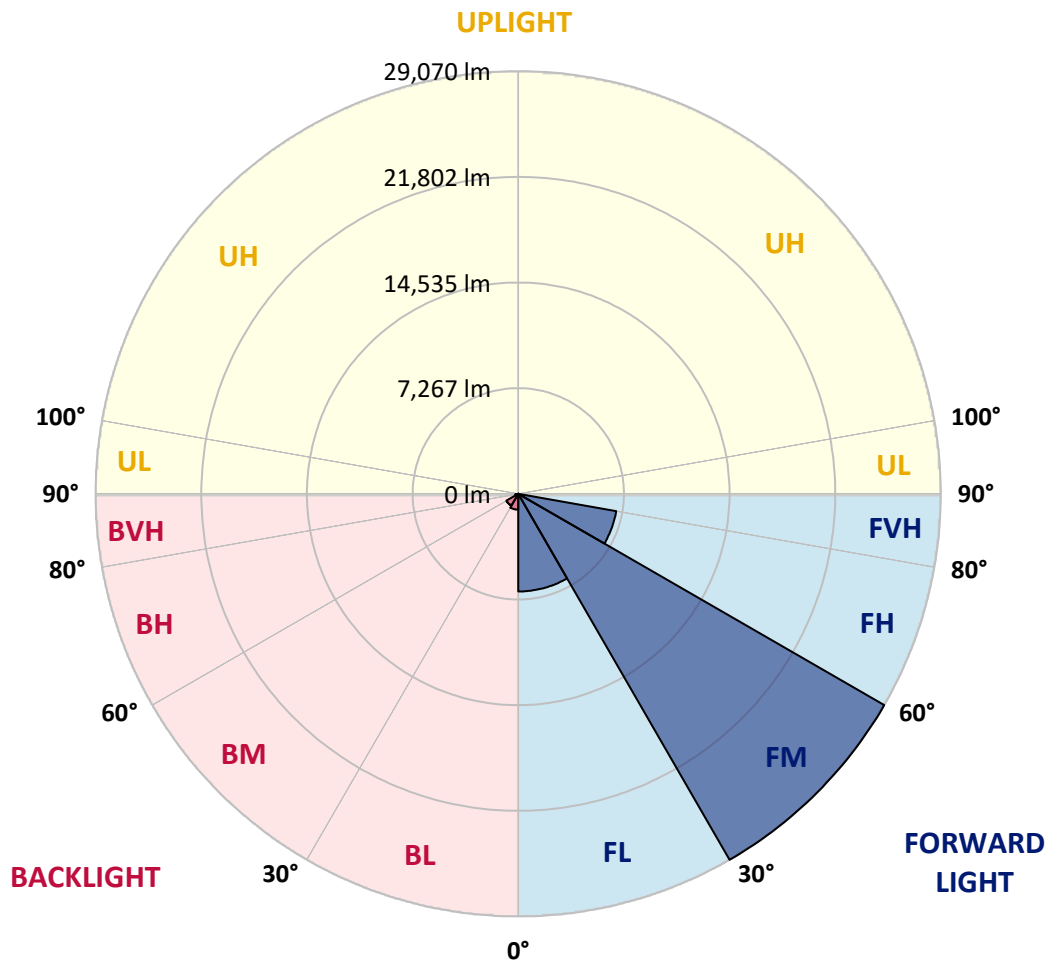
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6715.8	14.9			
FM (30°-60°)	29069.8	64.7			
FH (60°-80°)	6842.0	15.2			G3/7500
FVH (80°-90°)	57.9	0.1			G1/100
BL (0°-30°)	1090.6	2.4	B3/2500		
BM (30°-60°)	941.9	2.1	B1/1000		
BH (60°-80°)	206.6	0.5	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: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	10061.8	10061.8	10061.8	10061.8	10061.8	10061.8	10061.8	10061.8	10061.8	10061.8	10061.8
2.5°	12626.8	12438.6	12444.4	12359.0	12046.7	11802.2	11548.0	11487.9	11092.1	10676.9	10277.2
5°	14809.5	14671.7	14638.8	14473.8	14039.2	13579.4	13086.6	12972.1	12198.0	11348.2	10512.0
7.5°	15930.9	15932.9	15905.7	15845.6	15573.9	15127.7	14526.2	14405.9	13352.4	12077.7	10756.4
10°	15605.0	15678.7	15830.0	16029.9	16237.5	16181.2	15729.2	15620.5	14475.8	12849.9	11028.1
12.5°	14844.4	14854.1	15022.9	15350.8	15948.4	16561.5	16569.3	16532.4	15548.7	13657.0	11326.9
15°	14466.1	14502.9	14565.0	14776.5	15343.1	16324.8	17027.1	17079.5	16532.4	14514.6	11645.0
17.5°	14714.4	14766.8	14714.4	14739.7	15067.5	15950.3	17106.7	17240.6	17391.9	15362.5	11945.8
20°	15387.7	15436.2	15343.1	15240.2	15304.2	15841.7	17050.4	17230.9	18065.1	16115.2	12198.0
22.5°	16295.7	16315.1	16173.5	16004.7	15958.1	16210.3	17097.0	17283.2	18604.5	16796.3	12357.1
25°	17294.9	17312.3	17135.8	16941.8	16831.2	16934.0	17479.2	17618.9	19079.9	17446.2	12448.3
27.5°	18383.3	18398.9	18177.7	17939.0	17811.0	17814.9	18109.8	18259.2	19586.3	18187.4	12522.0
30°	19533.9	19526.1	19322.4	18990.6	18827.6	18823.8	19017.8	19169.1	20319.6	19138.1	12622.9
32.5°	20826.0	20810.5	20521.4	20110.1	19925.8	19953.0	20125.6	20212.9	21229.6	20150.9	12803.3
35°	22527.6	22483.0	22046.4	21536.2	21196.6	21186.9	21332.4	21402.3	22389.8	21377.1	13104.1
37.5°	24735.5	24694.8	24103.0	23361.9	22884.6	22706.1	22878.8	22968.0	24044.8	22950.6	13587.2
40°	26912.4	26871.7	26520.5	25841.4	25106.1	24677.3	24813.1	24908.2	26111.1	24859.7	14196.4
42.5°	28414.1	28449.1	28571.3	28627.6	27938.8	27038.5	27100.6	27199.6	28282.2	26900.8	14892.9
45°	28809.9	28885.6	29576.3	30932.5	31190.6	30488.2	29838.2	29892.6	30488.2	28941.9	15589.5
47.5°	27620.6	27760.3	29093.2	31615.5	33800.1	34296.8	33066.7	32994.9	32605.0	30593.0	16084.2
50°	24917.9	25046.0	26772.7	30503.7	34591.7	37932.7	36935.5	36724.0	34461.7	31580.5	16258.8
52.5°	21006.5	21161.7	22564.5	27003.6	33099.7	39554.7	40598.6	40422.0	35823.7	31658.1	16287.9
55°	14834.7	15022.9	16507.2	20696.0	28371.5	38264.5	41896.5	41844.2	36954.9	31452.5	16350.0
57.5°	8337.0	8472.8	10073.5	13267.0	20779.5	33328.6	40540.3	40887.6	37637.8	31095.5	16443.1
60°	3701.9	3738.8	4567.2	6604.4	12165.0	25470.9	36658.0	37244.0	37051.9	30618.2	16600.3
62.5°	2052.7	2021.7	2021.7	2745.4	5287.0	15768.0	29892.6	30860.7	34551.0	30053.6	16608.1
65°	1608.4	1579.3	1495.9	1507.5	2013.9	6998.3	20699.9	22420.9	29801.4	28398.6	16049.3
67.5°	1364.0	1338.7	1255.3	1222.3	1251.4	2308.8	11373.4	13160.3	22613.0	24097.2	13901.5
70°	1152.5	1135.0	1092.3	1051.6	977.9	1140.8	4351.9	5566.4	13934.5	16029.9	9489.5
72.5°	927.4	919.7	935.2	900.2	811.0	760.6	1488.1	1802.4	6259.1	7153.5	3909.5
75°	799.4	795.5	803.2	768.3	667.4	529.7	756.7	826.5	1765.6	1750.1	791.6
77.5°	520.0	525.8	665.5	650.0	574.3	353.1	391.9	423.0	535.5	401.6	240.6
80°	331.8	327.9	337.6	539.4	516.1	269.7	196.0	205.7	258.0	197.9	116.4
82.5°	201.8	197.9	221.2	252.2	260.0	188.2	120.3	122.2	161.0	128.1	62.1
85°	17.5	23.3	133.9	124.2	89.2	58.2	58.2	62.1	85.4	75.7	34.9
87.5°	0.0	0.0	23.3	34.9	19.4	21.3	21.3	23.3	33.0	33.0	17.5
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°	10061.8	10061.8	10061.8	10061.8	10061.8	10061.8	10061.8	10061.8	10061.8	10061.8	10061.8
2.5°	10069.6	9867.8	9460.4	9068.5	8736.7	8416.6	8051.8	7690.9	7522.1	7454.2	7384.4
5°	10087.1	9671.9	8831.8	7985.8	7108.9	6319.2	5646.0	4955.3	4609.9	4458.6	4388.7
7.5°	10110.3	9477.8	8119.7	6699.5	5287.0	4216.0	3280.9	2679.4	2419.4	2378.7	2277.8
10°	10114.2	9243.1	7293.2	5279.3	3544.7	2541.7	1955.7	1645.3	1530.8	1511.4	1478.4
12.5°	10122.0	8965.6	6375.5	3909.5	2363.2	1699.6	1414.4	1311.6	1280.5	1278.6	1278.6
15°	10145.3	8674.6	5422.8	2817.2	1697.7	1346.5	1241.7	1201.0	1189.3	1195.2	1193.2
17.5°	10145.3	8331.2	4487.7	2099.3	1371.7	1210.7	1152.5	1125.3	1121.4	1127.3	1129.2
20°	10071.5	7914.1	3630.1	1633.6	1216.5	1123.4	1071.0	1045.8	1036.1	1039.9	1041.9
22.5°	9895.0	7401.8	2931.6	1352.3	1113.7	1043.8	987.6	948.8	933.2	935.2	935.2
25°	9619.5	6794.6	2293.3	1169.9	1030.2	958.5	892.5	847.9	838.2	836.2	840.1
27.5°	9266.4	6123.3	1825.7	1030.2	931.3	863.4	797.4	760.6	752.8	754.7	756.7
30°	8919.1	5426.7	1439.6	911.9	820.7	756.7	706.2	688.8	688.8	694.6	696.5
32.5°	8600.9	4757.4	1138.9	809.1	721.8	663.5	634.4	632.5	642.2	646.1	648.0
35°	8327.3	4138.4	942.9	729.5	644.1	593.7	584.0	591.8	603.4	611.2	613.1
37.5°	8133.3	3585.5	824.6	663.5	584.0	543.3	541.3	556.8	572.4	589.8	593.7
40°	8051.8	3117.9	743.1	605.3	535.5	504.5	498.6	520.0	549.1	574.3	578.2
42.5°	7983.9	2735.7	673.2	549.1	496.7	452.1	450.1	477.3	512.2	537.4	543.3
45°	7925.7	2429.1	609.2	488.9	446.2	388.0	393.9	428.8	455.9	483.1	488.9
47.5°	7805.4	2176.9	539.4	424.9	368.6	331.8	343.4	374.5	395.8	436.5	442.4
50°	7590.0	1971.2	467.6	347.3	300.7	287.1	304.6	326.0	353.1	388.0	391.9
52.5°	7444.5	1816.0	405.5	291.0	248.3	252.2	269.7	277.4	293.0	306.6	302.7
55°	7361.1	1730.7	355.1	252.2	211.5	223.1	227.0	217.3	209.5	196.0	190.1
57.5°	7351.4	1653.0	316.3	219.2	186.3	192.1	178.5	145.5	118.4	102.8	98.9
60°	7335.9	1558.0	285.2	184.3	164.9	157.2	128.1	79.5	56.3	52.4	52.4
62.5°	7167.1	1410.5	261.9	155.2	139.7	118.4	73.7	36.9	31.0	33.0	33.0
65°	6629.6	1204.9	238.6	126.1	110.6	85.4	36.9	21.3	11.6	13.6	13.6
67.5°	5636.3	960.4	213.4	97.0	83.4	54.3	21.3	9.7	0.0	0.0	0.0
70°	3773.7	595.6	180.4	67.9	54.3	33.0	15.5	1.9	0.0	0.0	0.0
72.5°	1447.4	322.1	145.5	40.7	34.9	23.3	9.7	0.0	0.0	0.0	0.0
75°	326.0	211.5	100.9	29.1	25.2	15.5	3.9	0.0	0.0	0.0	0.0
77.5°	124.2	153.3	58.2	19.4	17.5	9.7	0.0	0.0	0.0	0.0	0.0
80°	60.1	91.2	27.2	11.6	9.7	3.9	0.0	0.0	0.0	0.0	0.0
82.5°	31.0	34.9	11.6	5.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.5	17.5	5.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.7	5.8	1.9	1.9	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)