

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: P323939

Luminaire Tested: **GAN-SA5D-760-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323939
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5D-760-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31473 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

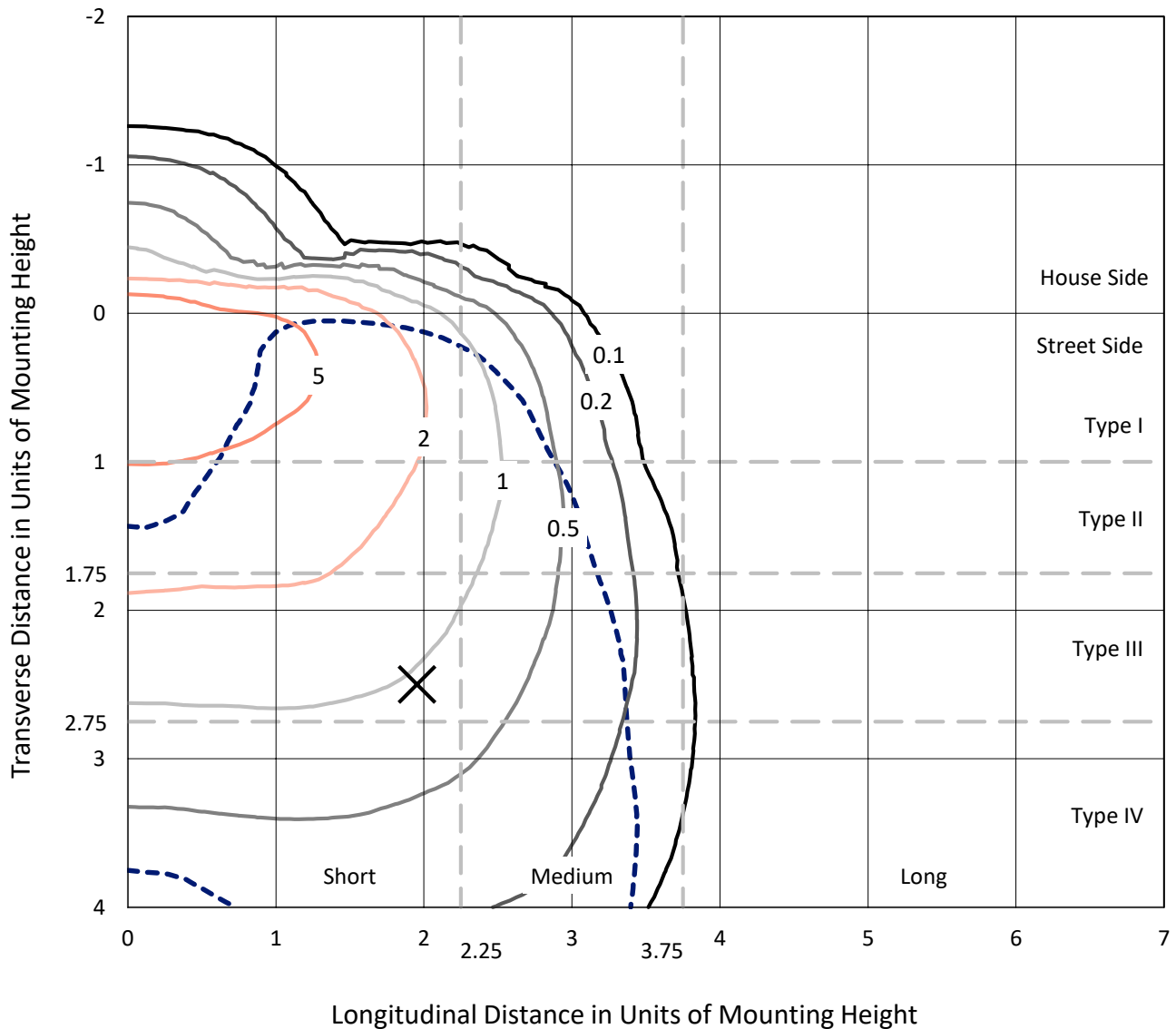
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

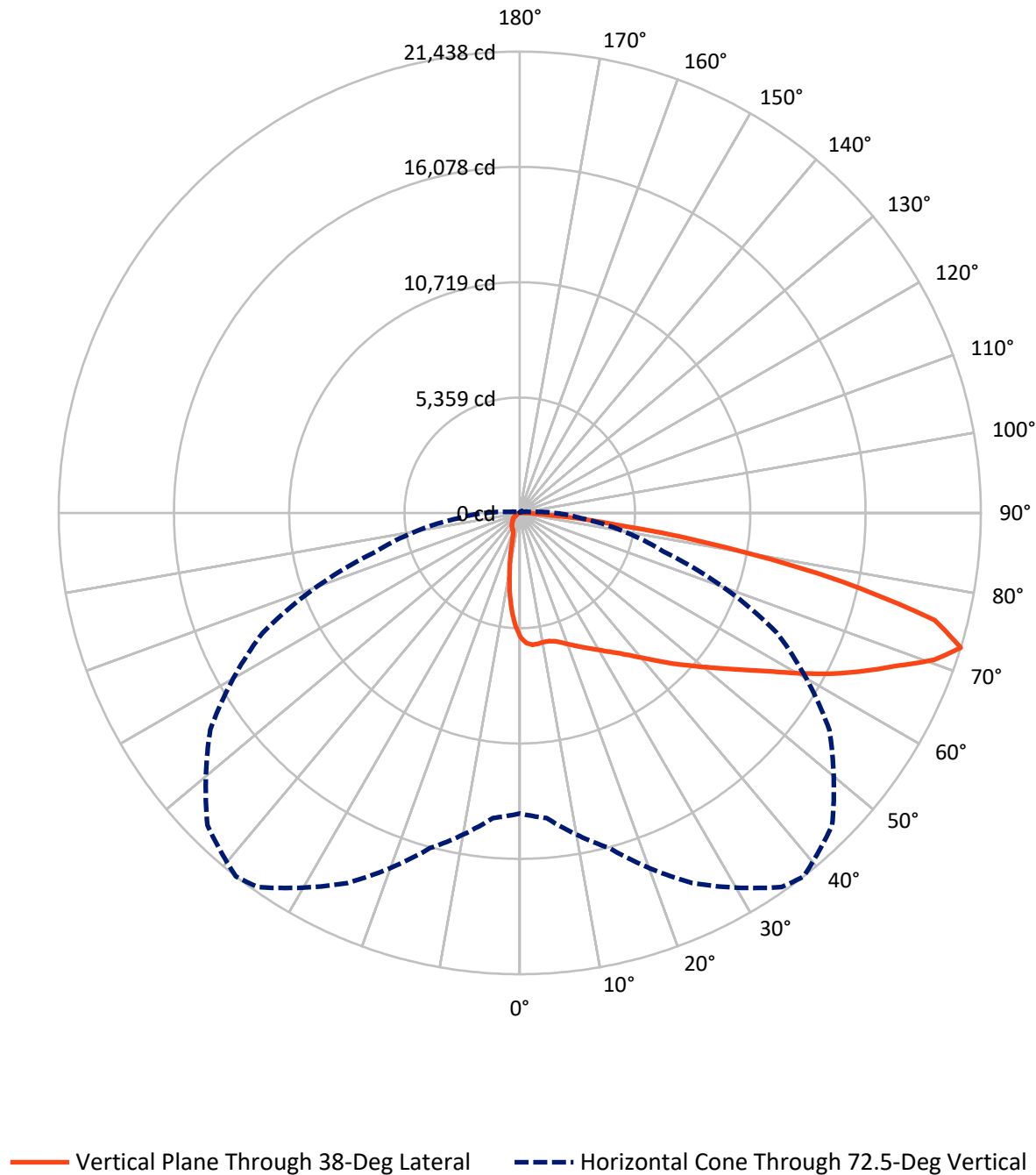
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2648.6	0.0	2648.6
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	28824.4	0.0	28824.4
	% Fixture	91.6	0.0	91.6
Total	Lumens	31473.0	0.0	31473.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	493.2	1.6
10°-20°	1206.1	3.8
20°-30°	1918.2	6.1
30°-40°	2883.8	9.2
40°-50°	4399.5	14.0
50°-60°	6217.9	19.8
60°-70°	7799.4	24.8
70°-80°	5831.8	18.5
80°-90°	723.1	2.3
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°	31473.0	100.0
0°-180°	31473.0	100.0

Coefficient of Utilization



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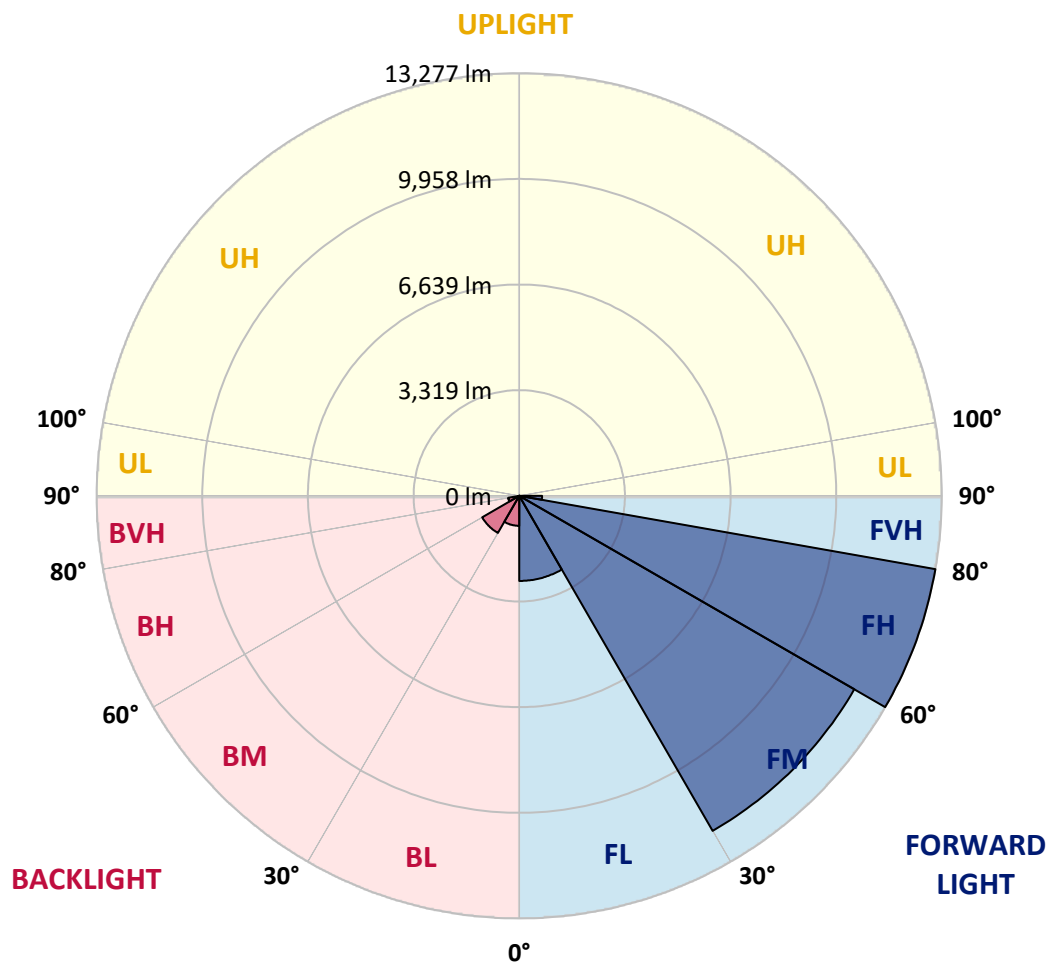
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2674.4	8.5			
FM	(30°-60°)	12156.3	38.6			
FH	(60°-80°)	13277.3	42.2			G5
FVH	(80°-90°)	716.4	2.3			G4/750
BL	(0°-30°)	943.1	3.0	B2/1000		
BM	(30°-60°)	1345.0	4.3	B2/2500		
BH	(60°-80°)	353.8	1.1	B1/500		G1/500
BVH	(80°-90°)	6.7	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	5787.8	5787.8	5787.8	5787.8	5787.8	5787.8	5787.8	5787.8	5787.8	5787.8	5787.8
2.5°	6143.3	6144.6	6130.2	6106.7	6076.6	6061.0	6034.8	5993.0	5948.6	5868.8	5782.6
5°	6268.8	6268.8	6250.5	6219.1	6170.8	6156.4	6106.7	6040.0	5948.6	5819.2	5674.1
7.5°	6255.7	6258.3	6233.5	6200.8	6152.5	6139.4	6079.3	6004.8	5891.0	5734.2	5548.6
10°	6187.7	6194.3	6174.7	6159.0	6114.6	6100.2	6044.0	5969.5	5855.7	5688.4	5475.4
12.5°	6118.5	6125.0	6131.5	6145.9	6118.5	6113.2	6068.8	6006.1	5897.6	5723.7	5483.2
15°	6074.0	6087.1	6134.2	6190.4	6196.9	6191.7	6162.9	6104.1	5994.3	5813.9	5539.4
17.5°	6074.0	6094.9	6193.0	6300.2	6338.1	6342.0	6317.2	6234.8	6104.1	5910.6	5591.7
20°	6125.0	6153.8	6306.7	6458.3	6521.1	6521.1	6472.7	6357.7	6204.7	5998.2	5627.0
22.5°	6255.7	6293.6	6485.8	6660.9	6727.6	6713.2	6647.8	6480.5	6309.3	6097.6	5671.5
25°	6513.2	6542.0	6742.0	6918.4	6958.9	6926.3	6843.9	6629.5	6442.6	6232.2	5752.5
27.5°	6845.2	6849.1	7055.7	7204.7	7179.8	7157.6	7054.3	6816.5	6634.8	6424.3	5892.3
30°	7209.9	7209.9	7391.6	7505.3	7429.5	7411.2	7307.9	7042.6	6880.5	6685.7	6091.0
32.5°	7562.8	7578.5	7726.2	7798.1	7713.1	7694.8	7594.2	7328.8	7207.3	7084.4	6400.8
35°	7904.0	7915.7	8055.6	8094.8	8013.8	8019.0	7947.1	7722.3	7676.5	7660.8	6867.4
37.5°	8234.6	8237.3	8379.7	8404.6	8364.0	8408.5	8415.0	8216.3	8301.3	8428.1	7524.9
40°	8536.6	8539.2	8680.4	8744.4	8813.7	8871.2	8922.2	8816.3	9097.3	9391.4	8307.8
42.5°	8778.4	8805.8	8984.9	9106.5	9289.5	9399.3	9537.8	9532.6	10045.0	10486.8	9254.2
45°	8991.5	9038.5	9288.2	9501.2	9814.9	9990.1	10207.0	10377.0	11111.5	11706.3	10212.3
47.5°	9272.5	9316.9	9601.9	9950.9	10369.1	10599.2	10958.6	11325.9	12284.0	12903.6	11148.1
50°	9668.5	9648.9	9929.9	10430.6	10967.8	11269.7	11782.1	12332.4	13447.3	13946.6	11698.4
52.5°	10090.7	10082.9	10290.7	10952.1	11673.6	12026.5	12703.6	13372.8	14559.6	14665.5	11950.7
55°	10613.5	10557.3	10732.5	11546.8	12511.4	12890.5	13687.8	14402.8	15445.8	15070.7	12077.5
57.5°	11161.2	11068.4	11235.7	12209.5	13456.5	13904.8	14777.9	15406.6	16035.3	15347.8	12076.2
60°	11727.2	11617.4	11816.1	13038.2	14630.2	15149.1	15959.5	16085.0	16585.6	15487.7	11987.3
62.5°	12200.3	12135.0	12430.4	13924.4	15941.2	16451.0	16852.3	16702.0	17049.6	15596.2	11779.5
65°	12701.0	12704.9	13182.0	14958.3	17334.6	17678.4	17712.3	17501.9	17437.8	15573.9	11076.3
67.5°	13378.0	13440.8	14236.8	16362.1	18690.0	18955.4	18952.8	18368.5	17721.5	14690.4	9516.9
70°	14094.3	14242.0	15452.4	17968.5	20169.7	20438.9	20300.4	18920.1	16686.3	11878.8	6735.4
72.5°	13974.1	14230.3	16128.1	18981.5	21232.3	21437.5	20536.9	17564.6	13188.5	6904.0	2867.7
75°	10780.9	11077.6	14788.4	17977.7	20117.4	19933.1	17645.7	13668.2	7207.3	1926.6	645.7
77.5°	5695.0	5853.1	9769.2	13695.7	15686.4	15300.8	12430.4	7582.4	2197.2	477.1	290.2
80°	2982.8	3019.4	4257.2	7770.6	9681.6	9684.2	7366.7	3330.5	905.8	244.4	194.8
82.5°	1597.3	1628.6	2249.5	3590.6	5072.8	4598.3	2820.7	1832.5	526.8	138.6	186.9
85°	384.3	390.8	1275.7	1640.4	1994.6	1424.7	837.8	1538.4	142.5	81.0	151.6
87.5°	147.7	150.3	473.2	709.7	508.5	329.4	392.1	573.8	18.3	31.4	23.5
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°	5787.8	5787.8	5787.8	5787.8	5787.8	5787.8	5787.8	5787.8	5787.8	5787.8	5787.8
2.5°	5730.3	5696.3	5612.6	5506.8	5412.6	5344.7	5242.7	5176.1	5131.6	5130.3	5113.3
5°	5585.2	5515.9	5335.5	5121.2	4926.4	4751.3	4544.7	4381.4	4259.8	4240.2	4198.4
7.5°	5429.6	5315.9	5038.8	4704.2	4377.4	4045.4	3659.8	3420.6	3215.4	3117.4	3106.9
10°	5334.2	5174.8	4781.3	4297.7	3785.3	3245.5	2741.0	2392.0	2139.7	2067.8	2014.2
12.5°	5314.6	5104.2	4582.6	3916.0	3184.1	2470.4	1912.3	1541.1	1339.8	1275.7	1258.7
15°	5334.2	5071.5	4415.3	3538.3	2575.0	1752.8	1283.6	1067.9	992.1	973.8	972.5
17.5°	5346.0	5032.3	4225.8	3118.7	1984.2	1252.2	982.9	920.2	908.4	907.1	909.7
20°	5344.7	4972.2	3999.7	2650.8	1475.7	984.2	888.8	875.7	873.1	874.4	873.1
22.5°	5335.5	4901.6	3751.3	2168.5	1114.9	879.7	848.3	840.5	839.1	839.1	839.1
25°	5352.5	4845.4	3478.2	1707.1	918.9	831.3	811.7	805.2	803.9	803.9	801.2
27.5°	5414.0	4814.0	3178.8	1313.6	830.0	788.2	772.5	771.2	767.3	766.0	768.6
30°	5513.3	4814.0	2850.8	1022.1	776.4	743.7	732.0	729.4	728.0	726.7	728.0
32.5°	5688.4	4850.6	2492.6	849.6	725.4	694.1	686.2	690.1	686.2	686.2	686.2
35°	6004.8	4960.4	2117.5	741.1	671.8	645.7	637.9	643.1	640.5	640.5	639.2
37.5°	6466.2	5164.3	1739.7	675.8	624.8	597.3	586.9	594.7	592.1	592.1	590.8
40°	7028.2	5461.0	1380.3	626.1	579.0	550.3	541.1	545.1	538.5	538.5	541.1
42.5°	7722.3	5837.5	1066.6	577.7	533.3	505.8	500.6	496.7	484.9	478.4	479.7
45°	8493.5	6229.6	831.3	530.7	490.2	467.9	460.1	449.6	430.0	417.0	418.3
47.5°	9182.3	6531.5	675.8	484.9	450.9	434.0	422.2	402.6	373.8	358.1	359.4
50°	9544.3	6577.3	575.1	439.2	414.3	397.4	380.4	350.3	316.3	299.3	298.0
52.5°	9637.2	6362.9	500.6	397.4	377.7	358.1	335.9	295.4	257.5	239.2	236.6
55°	9671.1	6036.1	434.0	358.1	338.5	316.3	287.6	241.8	206.5	188.2	186.9
57.5°	9558.7	5548.6	381.7	322.9	299.3	271.9	236.6	193.4	159.5	145.1	145.1
60°	9309.1	4888.5	341.1	284.9	258.8	227.4	190.8	150.3	118.9	107.2	107.2
62.5°	8811.1	4033.7	303.2	245.7	220.9	188.2	154.2	113.7	83.7	77.1	78.4
65°	7871.3	3059.9	265.3	210.4	188.2	155.5	120.3	81.0	56.2	56.2	58.8
67.5°	6419.1	2125.3	226.1	179.1	162.1	126.8	91.5	56.2	39.2	44.4	49.7
70°	4249.3	1192.1	193.4	147.7	138.6	100.6	68.0	37.9	31.4	41.8	51.0
72.5°	1603.8	464.0	162.1	118.9	120.3	77.1	48.4	28.8	28.8	45.7	60.1
75°	447.0	227.4	116.3	87.6	94.1	56.2	35.3	24.8	27.4	52.3	70.6
77.5°	262.7	167.3	75.8	51.0	64.0	39.2	23.5	19.6	23.5	44.4	68.0
80°	211.7	88.9	44.4	26.1	35.3	22.2	15.7	11.8	6.5	17.0	35.3
82.5°	211.7	53.6	20.9	18.3	18.3	11.8	7.8	5.2	1.3	0.0	9.1
85°	142.5	22.2	13.1	11.8	9.1	3.9	2.6	1.3	0.0	0.0	0.0
87.5°	23.5	9.1	5.2	2.6	1.3	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)