

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: P192568

Luminaire Tested: **GAN-AF-10-LED-U-5MQ-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192568
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
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-5MQ-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 65667 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G5

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

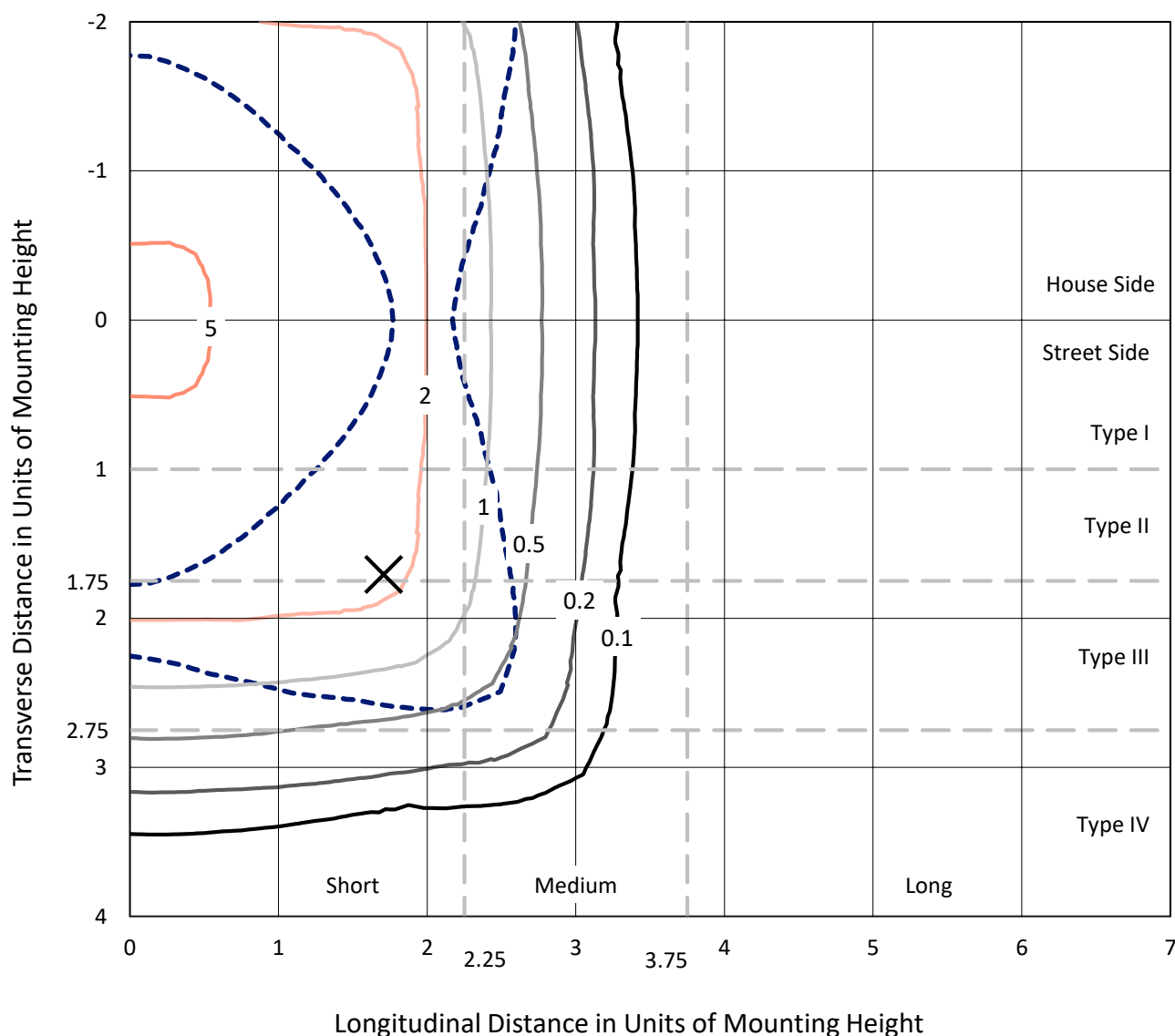


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

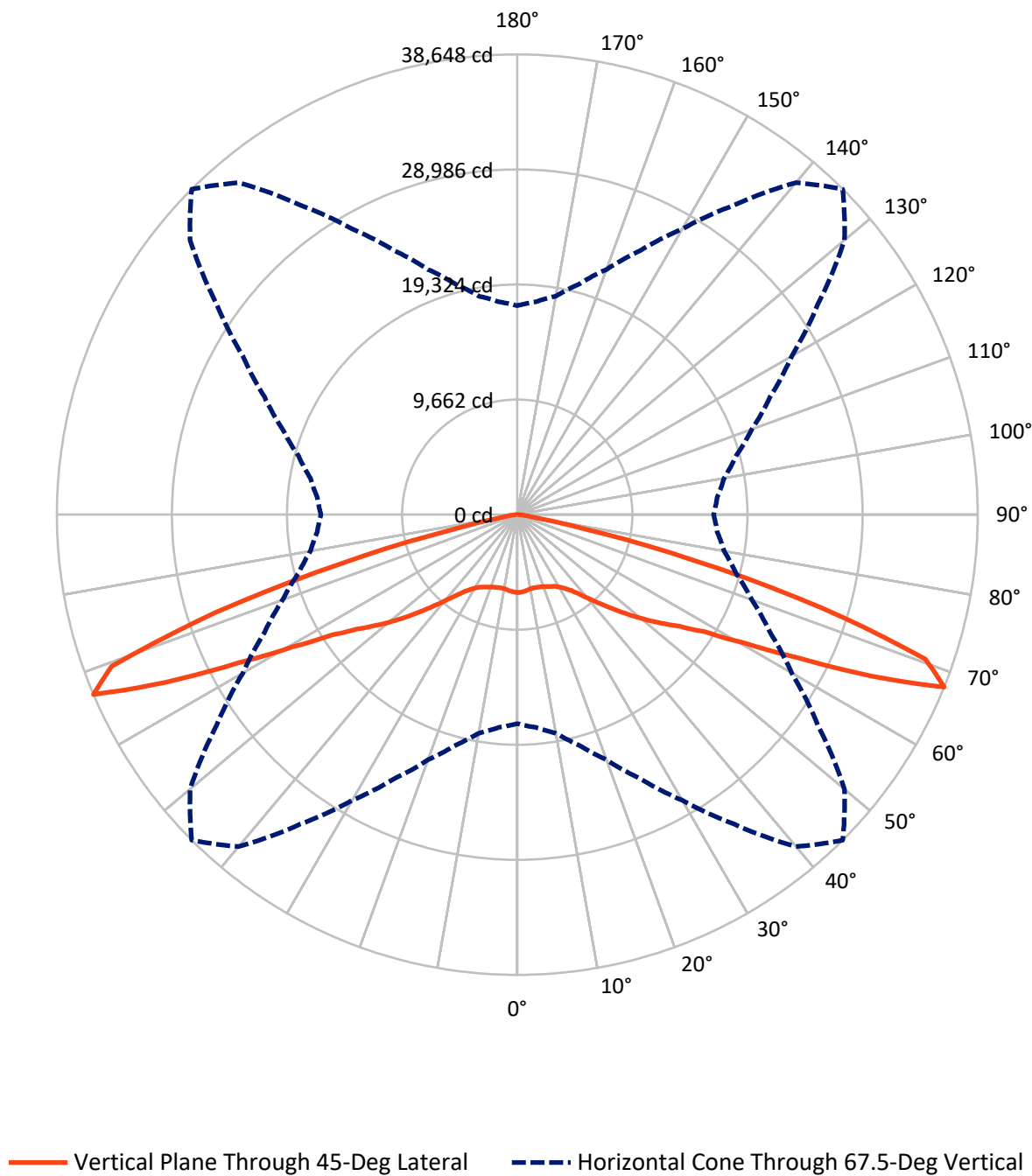


Based on 30 foot mounting height. Maximum calculated value = 7.3 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	32833.5	0.0	32833.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	32833.5	0.0	32833.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	65667.0	0.0	65667.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	612.5	0.9
10°-20°	1777.3	2.7
20°-30°	3021.4	4.6
30°-40°	4939.1	7.5
40°-50°	8817.2	13.4
50°-60°	14866.0	22.6
60°-70°	23069.8	35.1
70°-80°	8105.7	12.3
80°-90°	458.1	0.7
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°	65667.0	100.0
0°-180°	65667.0	100.0

Coefficient of Utilization



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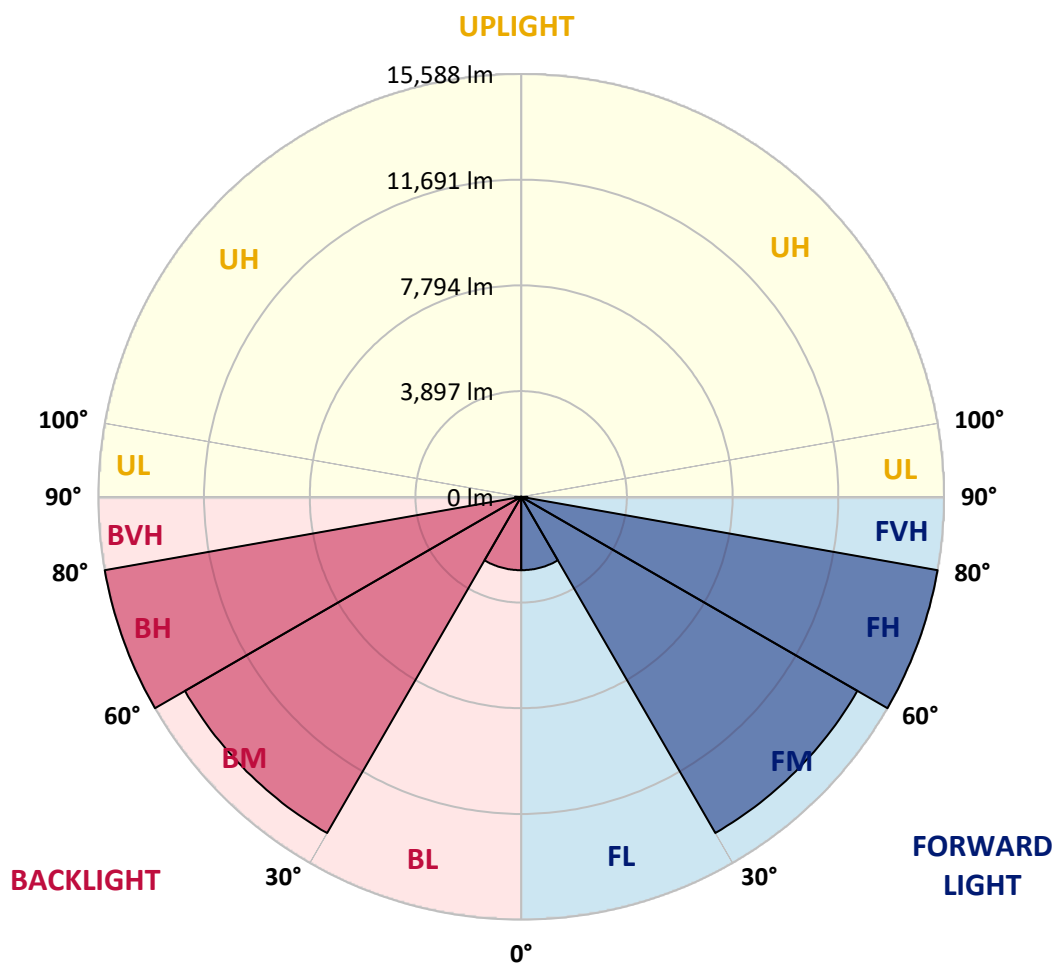
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2705.6	4.1			
FM	(30°-60°)	14311.1	21.8			
FH	(60°-80°)	15587.7	23.7			G5
FVH	(80°-90°)	229.0	0.3			G3/500
BL	(0°-30°)	2705.6	4.1	B4/5000		
BM	(30°-60°)	14311.1	21.8	B5		
BH	(60°-80°)	15587.7	23.7	B5		G5
BVH	(80°-90°)	229.0	0.3			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	6544.0	6544.0	6544.0	6544.0	6544.0	6544.0	6544.0	6544.0	6544.0	6544.0	6544.0
2.5°	6519.8	6525.8	6525.8	6525.8	6522.9	6522.9	6516.8	6522.9	6519.8	6510.8	6513.8
5°	6465.5	6471.5	6471.5	6468.4	6477.6	6474.4	6465.5	6471.5	6468.4	6462.4	6465.5
7.5°	6387.0	6396.0	6396.0	6393.0	6402.0	6399.0	6393.0	6396.0	6396.0	6387.0	6387.0
10°	6299.4	6305.5	6305.5	6302.4	6317.5	6317.5	6314.5	6323.6	6326.5	6317.5	6311.5
12.5°	6217.8	6226.9	6226.9	6239.0	6254.1	6260.1	6275.2	6287.4	6299.4	6296.4	6284.3
15°	6169.6	6175.6	6187.7	6202.7	6226.9	6248.1	6272.2	6299.4	6323.6	6329.6	6311.5
17.5°	6139.4	6148.3	6166.5	6187.7	6220.9	6257.1	6293.4	6329.6	6362.8	6374.8	6353.8
20°	6130.3	6136.3	6154.5	6190.6	6236.0	6290.3	6341.6	6383.9	6429.3	6444.3	6429.3
22.5°	6148.3	6160.5	6181.6	6223.9	6284.3	6353.8	6414.2	6471.5	6528.9	6556.1	6534.9
25°	6230.0	6242.0	6269.2	6323.6	6390.0	6462.4	6531.9	6598.3	6649.7	6676.9	6661.7
27.5°	6381.0	6396.0	6429.3	6483.6	6556.1	6634.6	6710.0	6764.5	6806.8	6815.8	6797.7
30°	6607.5	6640.7	6679.9	6740.3	6824.9	6891.3	6966.8	7015.1	7066.5	7066.5	7051.4
32.5°	6960.7	6993.9	7036.2	7093.6	7160.1	7232.5	7298.9	7341.2	7395.5	7398.6	7362.3
35°	7489.1	7504.3	7540.5	7576.8	7637.2	7700.6	7758.0	7785.2	7830.4	7833.5	7800.2
37.5°	8186.8	8189.8	8214.0	8226.0	8280.4	8349.8	8404.2	8422.4	8464.7	8458.6	8425.3
40°	8999.1	9014.2	9023.2	9041.4	9098.8	9165.2	9222.6	9231.7	9276.9	9267.9	9225.7
42.5°	9938.3	9944.3	9995.7	10022.9	10077.2	10110.5	10182.9	10191.9	10246.4	10222.2	10173.9
45°	10992.2	11046.5	11094.8	11149.3	11206.6	11245.8	11303.3	11291.2	11327.5	11291.2	11264.0
47.5°	12100.5	12139.8	12248.5	12333.0	12426.6	12459.8	12541.5	12505.2	12541.5	12490.1	12481.0
50°	13320.6	13389.9	13483.5	13580.3	13680.0	13734.2	13840.0	13794.6	13842.9	13794.6	13767.4
52.5°	14522.4	14540.6	14745.8	14887.7	15026.8	15090.2	15153.6	15132.4	15135.4	15132.4	15105.2
55°	15664.0	15706.2	15911.5	16104.9	16346.4	16524.6	16633.3	16621.2	16594.0	16566.9	16521.5
57.5°	16950.4	16992.6	17228.2	17466.7	17741.5	17995.2	18215.7	18442.2	18529.8	18553.9	18454.2
60°	18689.8	18686.7	19000.8	19290.7	19683.3	20060.8	20544.0	21036.2	21600.9	21863.7	21516.3
62.5°	20459.5	20531.9	20984.9	21498.3	22307.6	23095.8	23986.6	24862.4	25756.2	26484.0	25710.9
65°	20248.0	20525.9	21199.2	22361.9	23856.8	25632.4	27553.0	29585.3	31421.5	32683.7	31267.4
67.5°	17548.2	17943.8	18629.4	20042.6	21912.0	24472.8	27698.0	31717.4	36389.2	38648.0	35848.5
70°	12719.5	13166.5	13885.2	15265.2	17116.4	19550.5	23053.4	27879.1	34063.8	36340.7	33257.5
72.5°	6329.6	6571.2	7015.1	7893.9	9295.1	11270.1	14447.0	19085.4	24557.3	26647.0	23829.6
75°	2150.1	2261.8	2337.4	2624.2	3068.1	3844.3	5423.6	8343.8	12728.6	15259.2	12547.5
77.5°	1241.1	1244.1	1295.5	1346.8	1422.3	1506.9	1718.3	2255.7	3901.6	5541.4	4037.5
80°	803.3	800.3	842.5	881.8	933.2	975.3	987.4	1044.8	1204.9	1428.3	1277.4
82.5°	416.8	468.0	561.7	613.1	709.6	727.7	703.6	682.5	721.7	749.0	767.0
85°	229.6	199.3	299.0	386.6	428.9	434.9	434.9	410.7	425.8	416.8	453.0
87.5°	105.7	96.5	117.8	190.2	202.3	172.1	181.2	160.1	114.7	111.8	126.8
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	6544.0	6544.0	6544.0	6544.0	6544.0	6544.0	6544.0	6544.0
2.5°	6513.8	6516.8	6516.8	6525.8	6528.9	6534.9	6541.1	6544.0
5°	6462.4	6471.5	6465.5	6474.4	6474.4	6480.6	6480.6	6483.6
7.5°	6387.0	6396.0	6396.0	6396.0	6393.0	6402.0	6402.0	6402.0
10°	6308.4	6314.5	6311.5	6305.5	6299.4	6308.4	6305.5	6302.4
12.5°	6284.3	6269.2	6257.1	6251.0	6239.0	6242.0	6232.9	6232.9
15°	6299.4	6272.2	6251.0	6242.0	6230.0	6223.9	6217.8	6220.9
17.5°	6338.6	6305.5	6278.2	6263.2	6248.1	6239.0	6226.9	6230.0
20°	6408.0	6368.8	6329.6	6299.4	6272.2	6257.1	6248.1	6245.0
22.5°	6510.8	6453.4	6396.0	6350.7	6314.5	6293.4	6284.3	6278.2
25°	6628.5	6565.2	6498.7	6447.4	6411.2	6383.9	6365.8	6365.8
27.5°	6776.5	6725.2	6664.9	6604.4	6571.2	6544.0	6531.9	6525.8
30°	7024.2	6975.8	6927.5	6870.1	6827.8	6800.8	6779.5	6761.4
32.5°	7341.2	7302.1	7262.7	7220.4	7181.2	7144.9	7111.6	7096.6
35°	7788.2	7758.0	7730.7	7682.4	7667.4	7646.2	7628.2	7612.9
37.5°	8404.2	8392.1	8392.1	8340.9	8328.8	8319.6	8301.5	8304.6
40°	9213.5	9225.7	9210.5	9192.4	9183.4	9159.2	9159.2	9180.3
42.5°	10170.8	10179.9	10213.1	10182.9	10216.1	10185.9	10167.7	10182.9
45°	11282.1	11315.3	11381.7	11351.6	11372.7	11321.3	11258.0	11261.1
47.5°	12529.3	12559.5	12586.6	12565.6	12568.5	12484.1	12399.5	12378.3
50°	13824.8	13836.9	13852.0	13821.9	13827.9	13734.2	13637.6	13640.6
52.5°	15105.2	15162.6	15223.0	15141.4	15123.3	15017.6	14881.7	14827.5
55°	16569.8	16651.4	16581.9	16440.0	16298.1	16156.1	15978.0	15947.8
57.5°	18375.8	18236.8	18019.4	17750.6	17554.3	17355.1	17173.8	17098.3
60°	20888.1	20365.8	19973.2	19574.6	19323.9	19079.4	18840.7	18804.5
62.5°	24439.5	23536.6	22754.5	21930.1	21256.6	20731.2	20311.4	20193.7
65°	28890.8	26755.7	24904.7	23177.2	21676.4	20544.0	19831.3	19517.2
67.5°	30805.4	26589.7	23415.8	20963.7	19000.8	17629.8	16859.8	16476.3
70°	27069.8	22050.9	18599.2	16144.0	14356.3	12894.7	12197.1	11786.5
72.5°	18623.4	14027.1	11091.9	9053.4	7625.1	6402.0	5918.9	5882.6
75°	8361.9	5538.4	3817.1	2941.4	2476.3	2153.2	2053.5	1978.0
77.5°	2340.4	1730.3	1543.2	1443.6	1346.8	1235.0	1192.8	1201.9
80°	1138.5	1075.1	1032.8	969.3	881.8	788.2	745.9	764.0
82.5°	755.0	745.9	773.1	727.7	600.9	510.4	428.9	392.6
85°	459.0	465.0	474.0	477.1	404.7	283.8	193.3	217.4
87.5°	181.2	208.3	226.5	235.6	220.4	135.9	108.7	111.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)