

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: P321692

Luminaire Tested: **GAN-SA8C-760-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321692
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8C-760-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43597 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

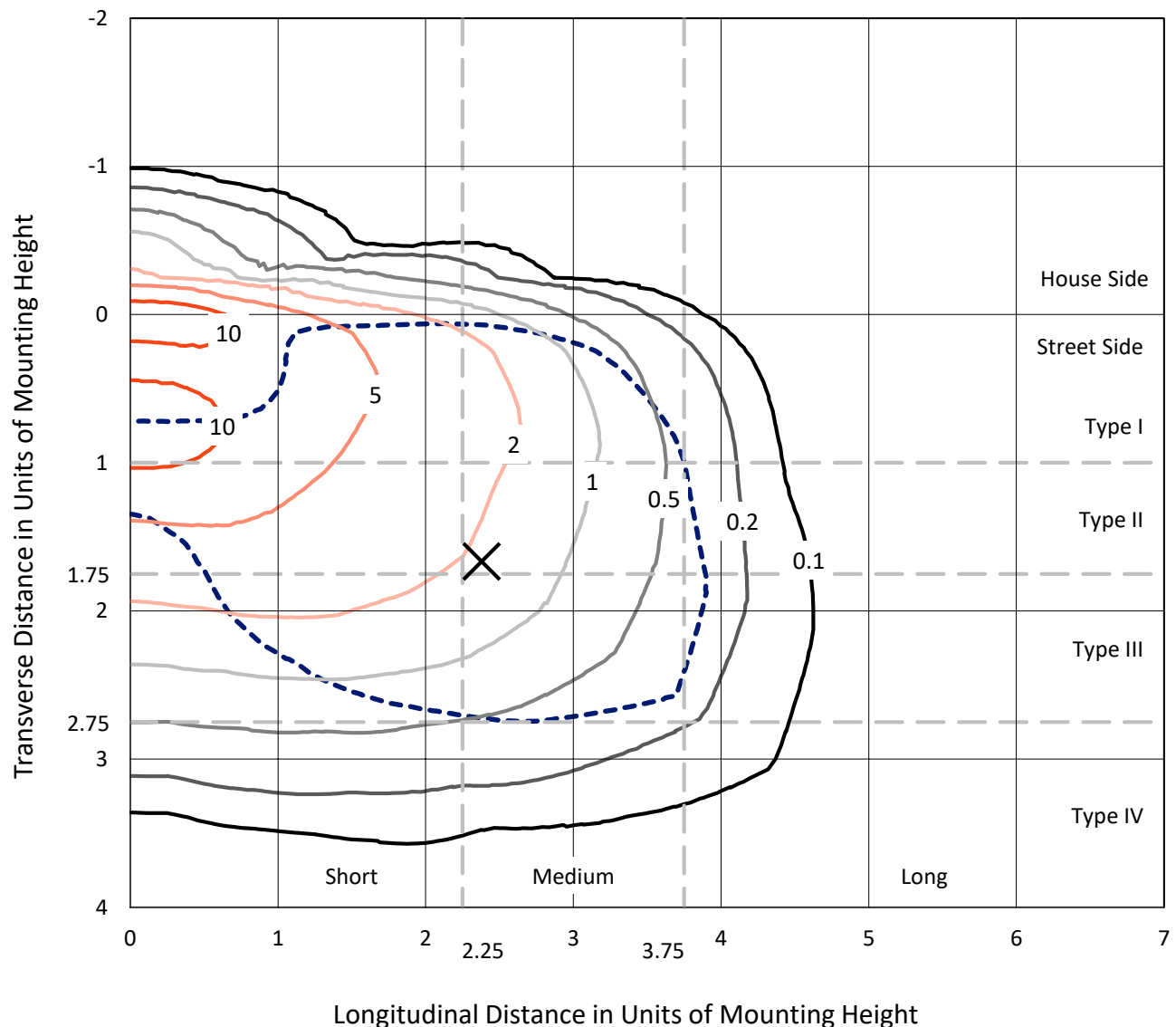
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

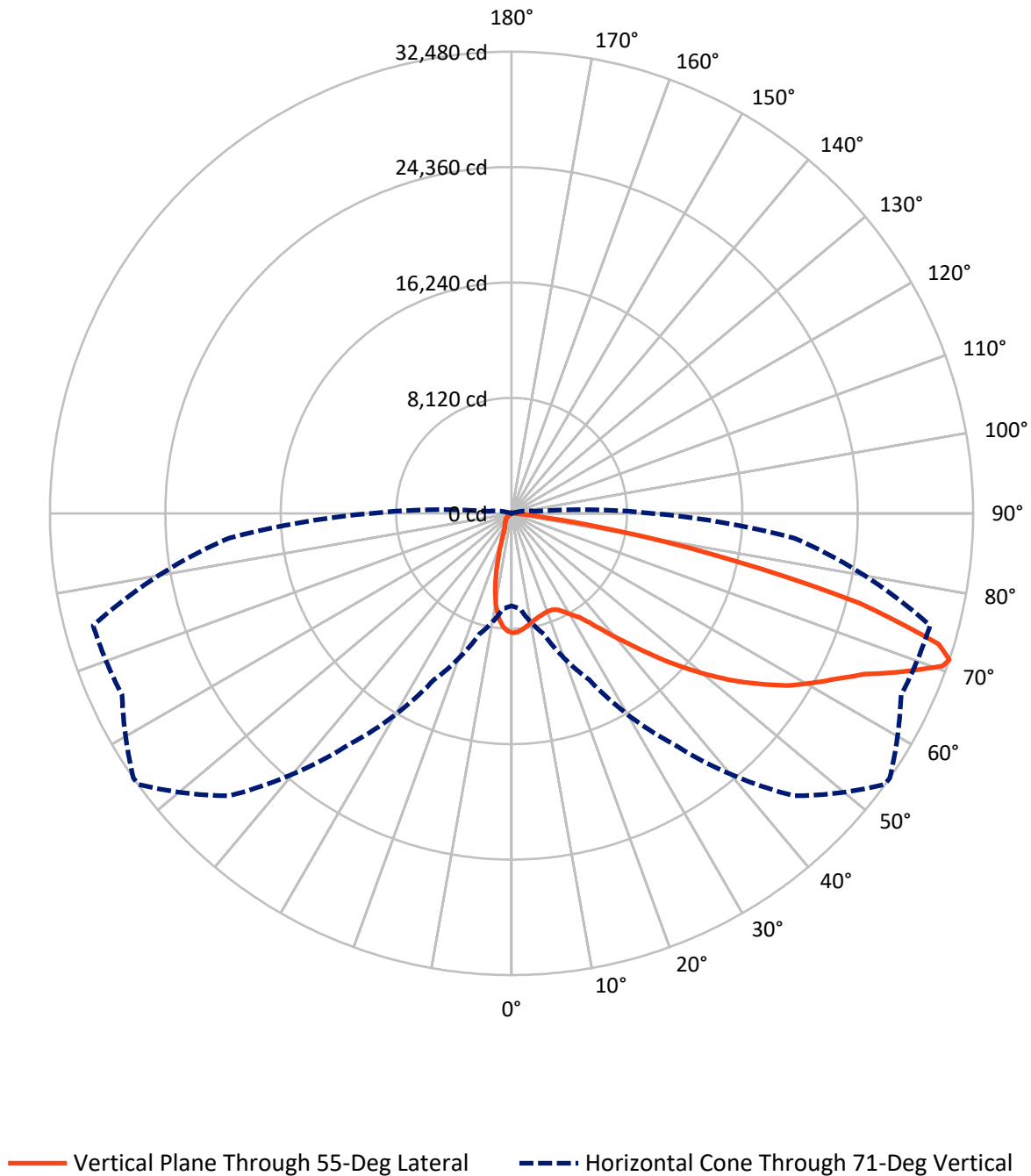
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3451.7	0.0	3451.7
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	40145.3	0.0	40145.3
	% Fixture	92.1	0.0	92.1
Total	Lumens	43597.0	0.0	43597.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	716.9	1.6
10°-20°	1618.4	3.7
20°-30°	2600.8	6.0
30°-40°	4419.0	10.1
40°-50°	6858.8	15.7
50°-60°	9221.4	21.2
60°-70°	11280.9	25.9
70°-80°	6595.7	15.1
80°-90°	285.1	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°	43597.0	100.0
0°-180°	43597.0	100.0

Coefficient of Utilization



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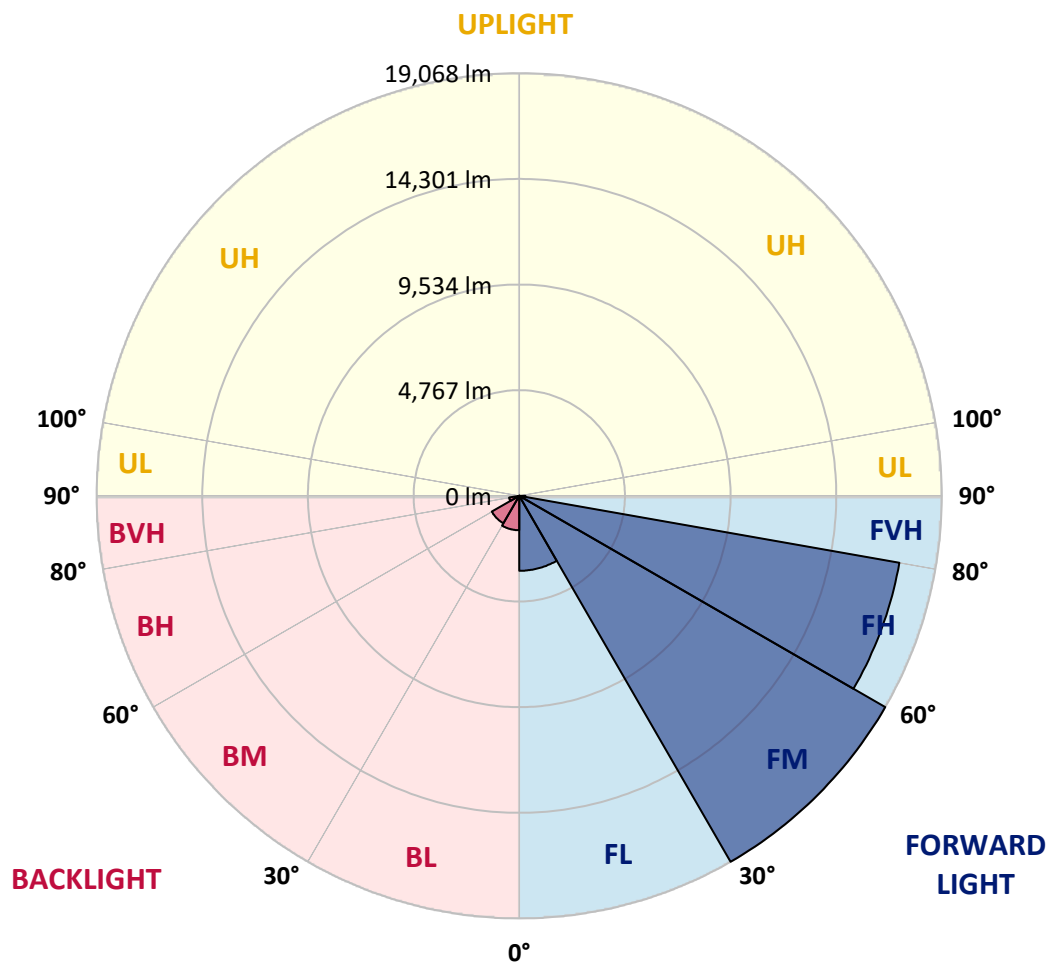
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3382.5	7.8			
FM	(30°-60°)	19068.1	43.7			
FH	(60°-80°)	17414.1	39.9			G5
FVH	(80°-90°)	280.6	0.6			G3/500
BL	(0°-30°)	1553.6	3.6	B3/2500		
BM	(30°-60°)	1431.1	3.3	B2/2500		
BH	(60°-80°)	462.4	1.1	B1/500		G1/500
BVH	(80°-90°)	4.5	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-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	8407.8	8407.8	8407.8	8407.8	8407.8	8407.8	8407.8	8407.8	8407.8	8407.8	8407.8
2.5°	8161.2	8171.0	8206.2	8221.9	8259.1	8321.7	8353.0	8355.0	8405.9	8425.5	8441.1
5°	7583.7	7642.4	7701.1	7763.8	7877.3	8028.1	8176.8	8190.5	8355.0	8476.4	8541.0
7.5°	7086.5	7139.3	7209.8	7309.6	7470.2	7707.0	7955.6	7985.0	8296.3	8572.3	8717.1
10°	6575.5	6618.6	6720.4	6867.2	7088.4	7405.6	7740.3	7789.2	8243.4	8701.5	8956.0
12.5°	6029.4	6054.8	6178.1	6389.6	6714.5	7117.8	7558.2	7622.8	8210.1	8850.3	9237.9
15°	5614.4	5626.1	5743.6	5962.8	6334.8	6859.4	7417.3	7495.6	8218.0	9028.4	9545.2
17.5°	5508.7	5514.5	5577.2	5727.9	6056.8	6628.4	7305.7	7401.6	8241.4	9202.6	9854.5
20°	5937.4	5896.3	5831.7	5808.2	5949.1	6489.4	7239.2	7346.8	8272.8	9357.3	10132.5
22.5°	7113.9	6992.5	6724.3	6366.1	6148.8	6499.2	7256.8	7364.4	8372.6	9547.2	10453.5
25°	8860.0	8691.7	8235.6	7530.8	6853.5	6781.1	7403.6	7513.2	8566.4	9774.2	10760.9
27.5°	10847.0	10680.6	10122.7	9116.5	7961.5	7339.0	7740.3	7842.1	8854.2	9975.9	10995.8
30°	12749.8	12702.8	12045.0	10901.8	9355.3	8243.4	8174.9	8261.0	9067.5	10097.2	11181.7
32.5°	14362.8	14288.4	13759.9	12648.0	10950.7	9329.9	8685.8	8711.3	9228.1	10253.8	11424.5
35°	15858.4	15766.4	15302.5	14251.2	12587.3	10657.1	9472.8	9435.6	9578.5	10569.0	11776.8
37.5°	17164.1	17248.3	16733.5	15733.1	14055.5	12037.2	10533.8	10422.2	10126.6	11081.9	12287.8
40°	18256.5	18256.5	17988.3	17154.3	15641.1	13464.3	11733.8	11587.0	10950.7	11872.8	12935.7
42.5°	18649.9	18734.1	18833.9	18362.2	17060.4	14948.1	13070.8	12918.1	12111.6	12994.5	13754.0
45°	18673.4	18806.5	19317.5	19315.5	18342.6	16422.2	14578.2	14505.7	13599.4	14435.2	14768.0
47.5°	18342.6	18509.0	19350.8	19828.4	19358.6	17794.5	16226.4	16136.4	15347.5	16201.0	15829.1
50°	17831.7	18015.7	18994.5	20030.0	20049.6	18988.6	17962.8	17827.7	17271.8	18219.3	16925.3
52.5°	16917.5	17273.8	18675.4	20077.0	20503.8	20020.2	19615.0	19556.3	19425.1	20163.2	17798.4
55°	14961.8	15357.3	17874.7	20092.7	20924.7	20934.4	21163.5	21179.1	21443.4	21979.8	18448.3
57.5°	14037.9	14261.0	16477.0	20167.1	21549.1	21972.0	22741.3	22862.7	23271.8	23704.4	19190.2
60°	13456.5	13720.7	15787.9	20065.3	22529.9	23332.5	24203.6	24244.7	24683.2	25483.9	20194.5
62.5°	12992.5	13252.9	15353.4	19673.8	23632.0	24969.0	25632.6	25636.6	25965.4	27603.9	21335.7
65°	11847.3	12066.6	14474.4	19233.3	24360.2	26588.0	27292.7	27267.2	27535.4	29839.5	22661.0
67.5°	10191.2	10359.6	12679.3	17563.5	24086.2	28060.1	29798.4	29714.2	29389.3	31771.6	23181.7
70°	7879.3	7940.0	9993.5	14636.9	21517.8	28625.8	32219.9	32176.9	30526.6	31425.2	21273.1
71°	6512.9	6712.6	8807.2	12918.1	19797.1	28103.1	32454.8	32480.3	30240.8	30481.6	19959.6
72.5°	3782.1	3952.4	6383.7	9921.1	16807.8	25922.4	31237.2	31421.2	28905.7	27725.3	17048.6
75°	810.4	867.2	2366.7	4802.0	9245.7	18168.4	24655.8	25311.6	23559.6	18861.4	10275.4
77.5°	563.8	608.8	1014.0	2178.8	3055.8	8977.5	15316.2	16056.1	14075.1	7088.4	3288.7
80°	446.3	497.2	790.9	1076.7	826.1	2895.3	7174.6	7626.8	4694.3	1581.7	554.0
82.5°	248.6	295.6	616.6	581.4	317.1	550.1	2008.5	2270.8	939.6	319.1	131.2
85°	72.4	88.1	397.4	422.8	135.1	105.7	342.6	424.8	178.1	84.2	58.7
87.5°	0.0	0.0	191.8	162.5	39.2	15.7	31.3	35.2	35.2	35.2	39.2
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°	8407.8	8407.8	8407.8	8407.8	8407.8	8407.8	8407.8	8407.8	8407.8	8407.8	8407.8
2.5°	8441.1	8454.8	8405.9	8341.3	8272.8	8188.6	8100.5	8032.0	8030.0	7996.7	7963.5
5°	8544.9	8537.0	8402.0	8196.4	7953.7	7701.1	7460.4	7188.3	7098.2	6986.6	6949.4
7.5°	8736.7	8681.9	8396.1	7945.8	7413.4	6884.8	6338.7	5788.6	5553.7	5342.3	5305.1
10°	8977.5	8873.7	8358.9	7570.0	6593.2	5618.3	4794.1	4046.3	3717.5	3464.9	3453.2
12.5°	9228.1	9069.5	8255.1	7002.3	5518.4	4148.1	3198.7	2462.6	2188.6	2012.4	2028.1
15°	9490.4	9253.5	8032.0	6236.9	4294.9	2815.0	1965.4	1532.8	1423.2	1378.1	1389.9
17.5°	9758.6	9380.8	7720.7	5314.8	3087.1	1816.6	1360.5	1239.2	1239.2	1248.9	1252.9
20°	9991.5	9449.3	7262.6	4281.2	2092.7	1323.3	1190.2	1172.6	1182.4	1198.0	1200.0
22.5°	10222.5	9453.2	6665.6	3233.9	1464.3	1158.9	1133.4	1125.6	1131.5	1149.1	1151.1
25°	10410.4	9406.2	5917.8	2300.2	1168.7	1092.3	1080.6	1076.7	1080.6	1102.1	1102.1
27.5°	10486.8	9235.9	5005.6	1617.0	1047.3	1017.9	1014.0	1017.9	1023.8	1039.5	1041.4
30°	10494.6	8938.3	4011.1	1170.6	949.4	918.1	925.9	939.6	933.8	929.9	933.8
32.5°	10514.2	8593.8	3042.1	963.1	867.2	818.3	808.5	808.5	785.0	771.3	763.5
35°	10578.8	8188.6	2206.2	865.3	783.0	726.3	689.1	646.0	601.0	577.5	571.6
37.5°	10680.6	7763.8	1579.8	800.7	708.6	644.0	573.6	497.2	432.6	415.0	415.0
40°	10866.6	7325.3	1168.7	749.8	649.9	569.7	463.9	364.1	305.4	295.6	295.6
42.5°	11160.2	6863.3	931.8	704.7	599.0	493.3	354.3	264.3	221.2	215.3	213.4
45°	11465.6	6354.3	814.4	661.7	544.2	405.2	262.3	195.8	170.3	164.4	164.4
47.5°	11771.0	5812.1	757.6	620.6	491.4	315.2	195.8	154.6	142.9	142.9	144.9
50°	12029.4	5246.3	716.5	575.5	422.8	238.8	154.6	131.2	127.2	135.1	137.0
52.5°	12094.0	4690.4	665.6	518.8	338.7	182.1	127.2	115.5	115.5	115.5	115.5
55°	12054.8	4259.7	599.0	448.3	250.6	144.9	109.6	101.8	99.8	99.8	99.8
57.5°	12187.9	4005.2	479.6	348.5	180.1	117.5	95.9	90.0	86.1	84.2	84.2
60°	12456.1	3838.8	342.6	250.6	135.1	97.9	82.2	76.3	70.5	66.6	66.6
62.5°	12812.4	3694.0	254.5	186.0	103.8	78.3	68.5	62.6	54.8	50.9	50.9
65°	13086.5	3435.6	193.8	139.0	78.3	62.6	52.9	50.9	39.2	35.2	33.3
67.5°	12667.5	2867.9	156.6	101.8	58.7	48.9	41.1	39.2	23.5	19.6	19.6
70°	10864.6	1996.7	125.3	74.4	43.1	39.2	33.3	25.4	17.6	15.7	15.7
71°	9852.5	1667.9	113.5	62.6	37.2	37.2	31.3	21.5	15.7	13.7	13.7
72.5°	8184.7	1184.3	95.9	48.9	33.3	39.2	33.3	19.6	15.7	13.7	11.7
75°	4751.1	495.3	66.6	33.3	25.4	47.0	43.1	17.6	11.7	9.8	9.8
77.5°	1429.0	182.1	37.2	21.5	19.6	41.1	48.9	15.7	5.9	2.0	2.0
80°	260.4	78.3	23.5	13.7	13.7	25.4	37.2	7.8	0.0	0.0	0.0
82.5°	92.0	39.2	13.7	7.8	5.9	11.7	17.6	0.0	0.0	0.0	0.0
85°	52.9	27.4	7.8	3.9	0.0	2.0	3.9	0.0	0.0	0.0	0.0
87.5°	35.2	7.8	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)