

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: P318183

Luminaire Tested: **GAN-SA9D-760-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318183
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9D-760-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 68070 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

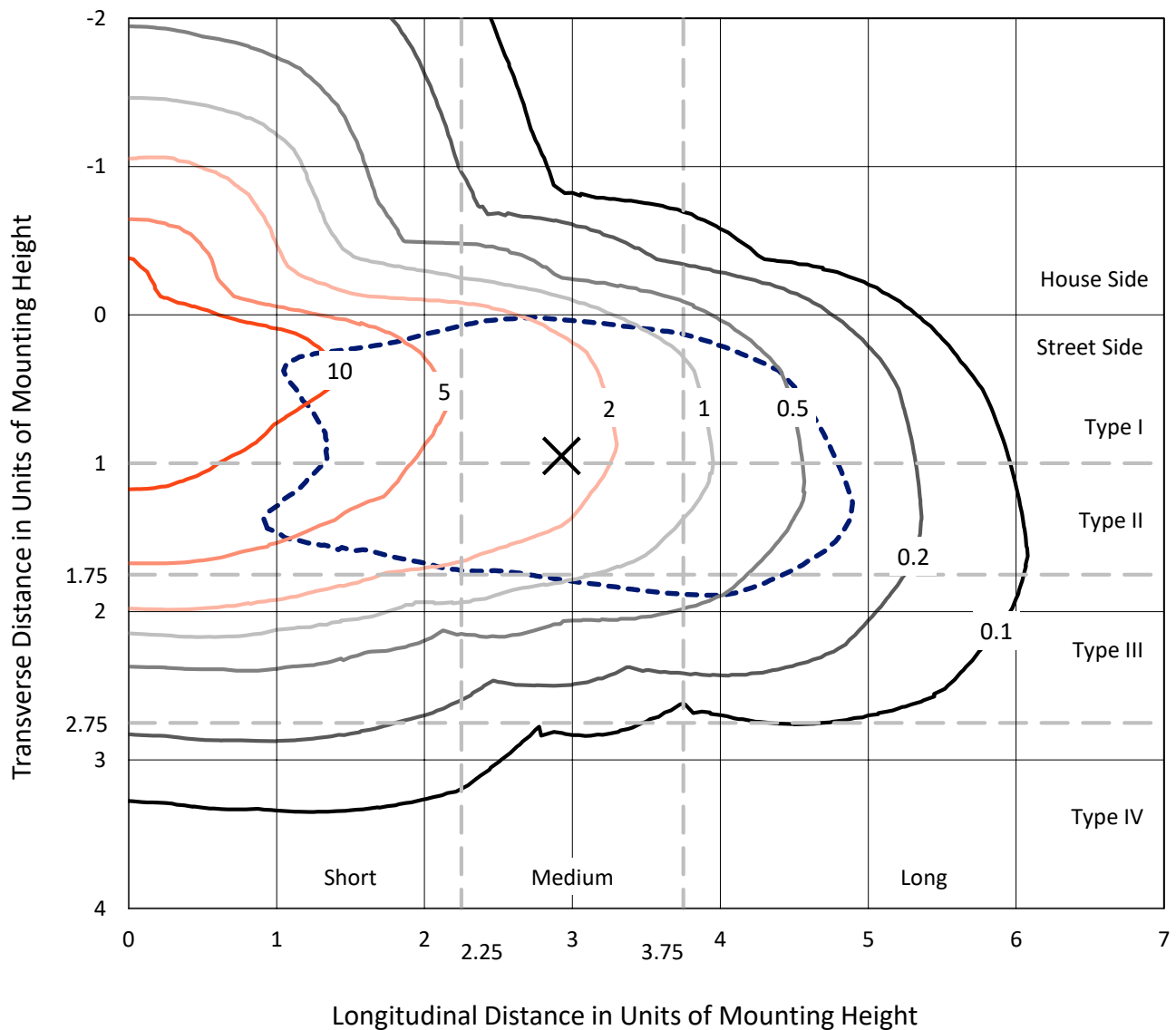
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

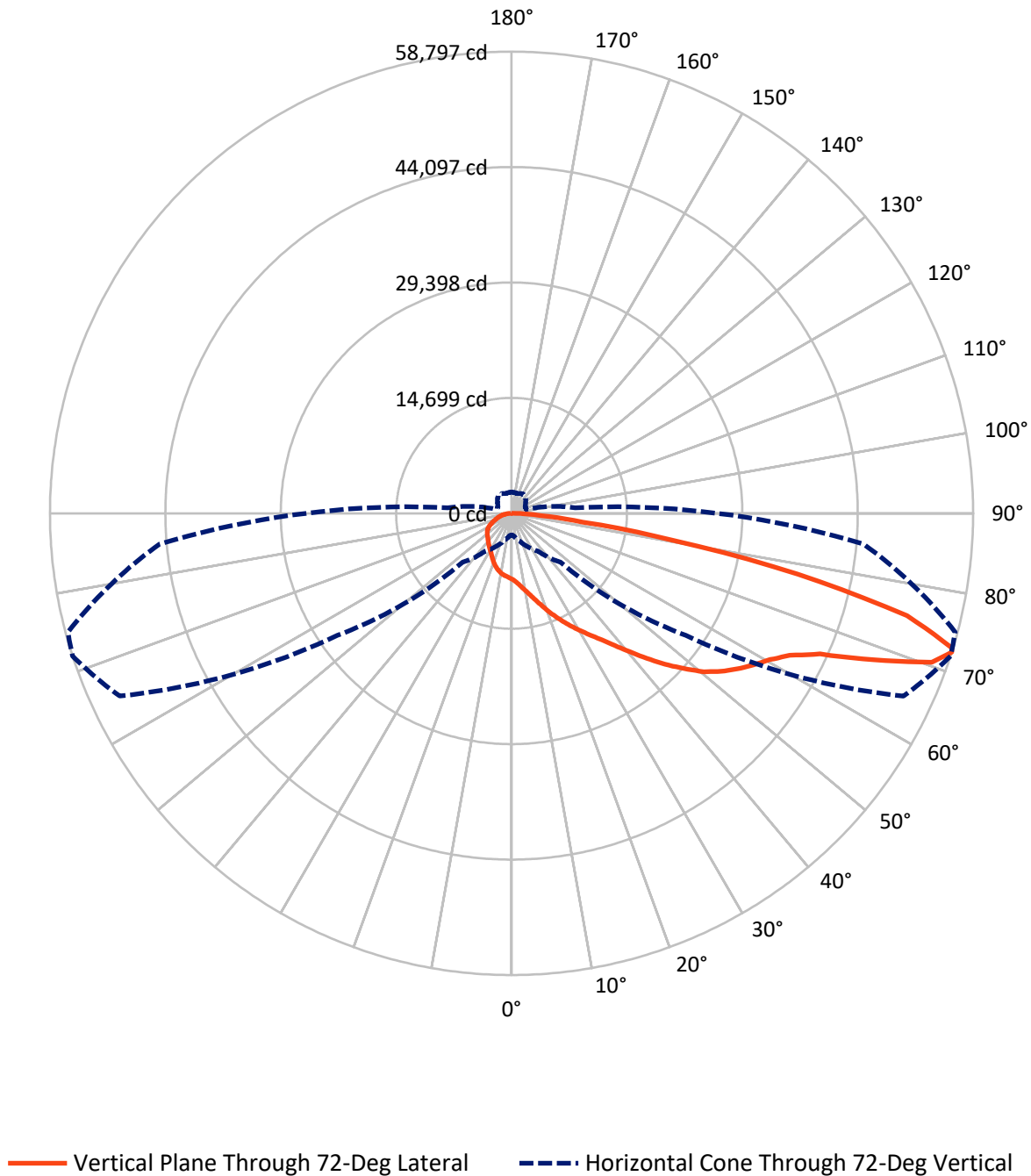
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.5 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	12627.4	0.0	12627.4
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	55442.6	0.0	55442.6
	% Fixture	81.4	0.0	81.4
Total	Lumens	68070.0	0.0	68070.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	839.1	1.2
10°-20°	2711.7	4.0
20°-30°	4751.7	7.0
30°-40°	7045.3	10.4
40°-50°	10304.4	15.1
50°-60°	14178.7	20.8
60°-70°	15785.1	23.2
70°-80°	10696.0	15.7
80°-90°	1758.0	2.6
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°	68070.0	100.0
0°-180°	68070.0	100.0

Coefficient of Utilization



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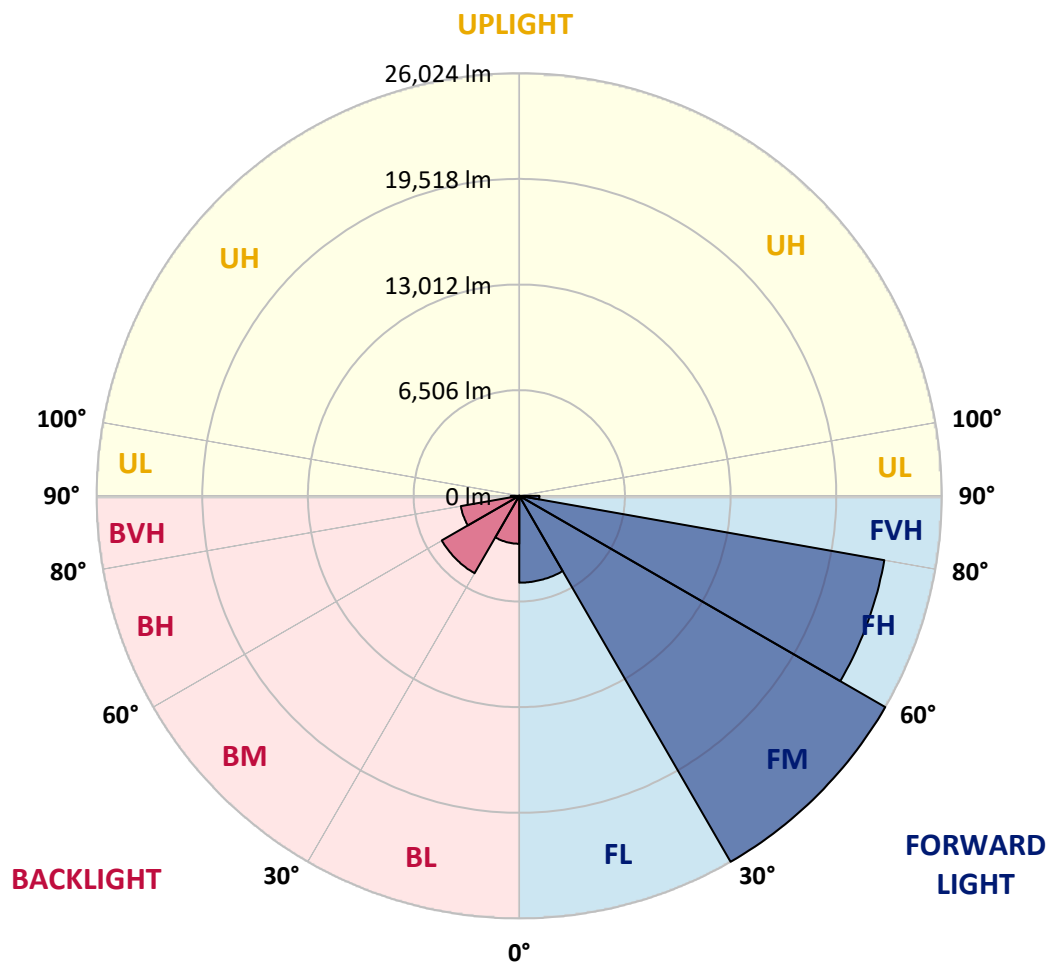
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5350.7	7.9			
FM	(30°-60°)	26024.0	38.2			
FH	(60°-80°)	22827.8	33.5			G5
FVH	(80°-90°)	1240.0	1.8			G5
BL	(0°-30°)	2951.8	4.3	B4/5000		
BM	(30°-60°)	5504.4	8.1	B4/8500		
BH	(60°-80°)	3653.3	5.4	B4/5000		G4/5000
BVH	(80°-90°)	517.9	0.8			G4/750
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	8374.4	8374.4	8374.4	8374.4	8374.4	8374.4	8374.4	8374.4	8374.4	8374.4	8374.4
2.5°	9251.0	9236.9	9187.7	9187.7	9093.9	9014.2	8864.2	8763.5	8643.9	8601.7	8461.1
5°	10146.3	10151.0	10090.0	10047.9	9909.6	9740.8	9485.3	9253.3	9021.3	8927.5	8639.2
7.5°	10898.7	10889.3	10872.9	10837.7	10708.8	10535.4	10190.8	9846.3	9504.1	9363.5	8866.6
10°	11381.5	11402.6	11416.6	11433.0	11379.1	11254.9	10929.1	10509.6	10061.9	9869.7	9138.5
12.5°	11625.2	11662.7	11728.4	11840.9	11929.9	11915.9	11679.1	11233.8	10701.8	10460.4	9478.3
15°	11768.2	11817.4	11920.6	12122.1	12372.9	12515.9	12452.6	12049.5	11456.5	11158.8	9893.2
17.5°	11857.3	11897.1	12056.5	12326.0	12698.7	13078.4	13244.8	12907.3	12309.6	11969.8	10369.0
20°	11918.2	11948.7	12147.9	12464.3	12947.1	13551.8	14015.9	13931.5	13249.5	12808.8	10865.8
22.5°	12054.1	12079.9	12269.8	12588.5	13122.9	13903.4	14758.9	14885.5	14240.9	13741.7	11397.9
25°	12433.8	12433.8	12593.2	12815.9	13317.5	14208.1	15387.0	15947.2	15253.4	14672.2	11890.1
27.5°	13158.1	13151.0	13209.6	13287.0	13666.7	14517.5	15947.2	16884.7	16303.5	15668.3	12368.2
30°	14015.9	14062.8	14069.8	14032.3	14210.4	14904.2	16465.2	17873.8	17360.5	16676.1	12858.1
32.5°	15119.8	15150.3	15115.1	14990.9	14965.1	15452.7	16973.8	18909.8	18504.3	17728.5	13305.7
35°	16521.4	16462.8	16352.7	16099.5	15858.1	16186.3	17555.0	19945.7	19788.7	19001.2	13922.2
37.5°	18023.8	18026.1	17890.2	17316.0	16983.2	17123.8	18356.6	21120.0	21342.6	20515.3	14712.0
40°	19228.5	19291.8	19376.2	18621.5	18190.2	18384.7	19376.2	22481.7	23180.2	22310.6	15740.9
42.5°	20069.9	20142.6	20381.7	19908.2	19460.5	19821.5	20576.2	23934.9	25242.7	24382.5	16945.7
45°	20960.6	21000.4	21169.2	20965.3	20679.3	21492.6	21928.6	25439.6	27424.8	26590.4	18293.3
47.5°	21898.1	21940.3	22113.7	21977.8	21827.8	23053.6	23339.5	26857.6	29515.4	29016.2	19732.4
50°	23055.9	23084.1	23248.1	23002.0	23048.9	24230.2	24600.5	28158.4	31706.9	31195.9	21176.2
52.5°	24635.6	24642.7	24870.0	24647.4	24427.0	25092.7	25685.7	29384.2	33424.9	33183.5	22620.0
55°	25873.2	25948.2	26693.5	26646.6	26520.1	25875.5	26592.7	30551.4	34957.7	35072.6	24152.8
57.5°	25083.3	25376.3	26885.7	27949.8	28985.7	27823.2	27818.5	31866.3	36382.8	36926.5	25838.0
60°	21968.4	22366.9	24591.1	26951.3	30192.8	31212.3	30363.9	33471.8	37821.8	38764.1	27949.8
62.5°	15689.4	16345.6	19359.8	23128.6	28538.1	33457.7	35543.7	36019.5	39778.9	40892.2	30694.4
65°	7931.4	8428.3	10954.9	15494.8	22800.5	31990.5	41173.5	41597.7	43179.8	44168.9	34920.2
67.5°	4818.8	5006.3	6239.2	8618.1	13978.4	24919.2	43011.0	50895.5	49761.1	50286.2	40946.1
70°	3550.9	3689.1	4457.9	5723.6	8039.2	14622.9	37371.8	57530.8	56785.5	56726.9	45399.3
72°	2765.7	2866.5	3546.2	4624.3	5878.2	8772.8	27087.3	55081.6	58796.5	58501.2	44991.5
72.5°	2622.7	2711.8	3330.5	4352.4	5554.8	7952.5	24354.4	53429.2	58651.2	58517.6	44464.2
75°	2064.9	2128.2	2465.7	3365.7	4347.7	4511.8	13345.6	41405.5	52029.9	54193.3	39992.2
77.5°	1708.6	1718.0	1896.1	2449.3	3389.1	3189.9	6555.6	28727.9	37257.0	39635.9	28329.5
80°	1392.2	1403.9	1488.3	1718.0	2564.1	2360.2	3112.6	16519.1	20859.8	20885.6	13472.1
82.5°	1108.6	1111.0	1204.7	1256.3	1842.2	1687.5	1783.6	7755.6	9115.0	8768.1	4842.3
85°	780.5	764.1	1176.6	1031.3	1204.7	1082.8	984.4	3070.4	3768.8	3604.8	1516.4
87.5°	260.2	269.5	522.7	668.0	703.1	614.1	438.3	1176.6	1422.7	1411.0	480.5
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°	8374.4	8374.4	8374.4	8374.4	8374.4	8374.4	8374.4	8374.4	8374.4	8374.4	8374.4
2.5°	8416.6	8341.6	8231.4	8109.5	8013.4	7915.0	7842.3	7804.8	7762.7	7727.5	7769.7
5°	8505.6	8365.0	8130.6	7900.9	7732.2	7582.2	7474.4	7418.1	7366.6	7331.4	7336.1
7.5°	8651.0	8423.6	8029.8	7694.7	7460.3	7298.6	7188.4	7150.9	7118.1	7108.7	7120.5
10°	8805.6	8470.5	7896.3	7450.9	7183.7	7050.1	7000.9	7026.7	7050.1	7071.2	7094.7
12.5°	8981.4	8512.7	7701.7	7165.0	6937.6	6886.1	6935.3	7047.8	7129.8	7179.0	7209.5
15°	9211.1	8550.2	7476.7	6879.0	6726.7	6785.3	6951.7	7146.2	7289.2	7380.6	7394.7
17.5°	9422.1	8547.8	7188.4	6590.8	6555.6	6726.7	6977.5	7251.7	7443.9	7572.8	7598.6
20°	9640.0	8484.5	6853.3	6309.5	6382.2	6663.4	6989.2	7319.7	7551.7	7701.7	7736.9
22.5°	9843.9	8374.4	6485.3	6054.0	6236.8	6579.0	6944.7	7279.8	7511.9	7633.7	7671.2
25°	9982.2	8182.2	6112.6	5838.4	6107.9	6475.9	6799.4	7068.9	7242.3	7303.3	7312.6
27.5°	10052.5	7931.4	5761.1	5650.9	5974.3	6307.2	6529.8	6663.4	6712.6	6707.9	6698.6
30°	10061.9	7600.9	5458.7	5498.5	5819.6	6058.7	6164.2	6138.4	6075.1	5967.3	5976.7
32.5°	10031.5	7228.3	5205.6	5353.2	5622.8	5756.4	5761.1	5636.8	5468.1	5297.0	5250.1
35°	10040.8	6862.6	4982.9	5189.2	5383.7	5442.3	5388.4	5205.6	4975.9	4755.6	4708.7
37.5°	10144.0	6543.9	4790.7	4999.3	5118.9	5132.9	5055.6	4863.4	4694.6	4479.0	4460.2
40°	10390.1	6316.5	4607.9	4786.0	4854.0	4861.0	4750.9	4614.9	4629.0	4514.2	4511.8
42.5°	10833.0	6218.1	4446.2	4563.4	4605.6	4619.6	4535.2	4448.5	4570.4	4495.4	4469.6
45°	11404.9	6241.5	4310.2	4345.4	4422.7	4488.4	4436.8	4331.3	4378.2	4052.4	3944.6
47.5°	12065.9	6391.5	4202.4	4157.9	4291.5	4415.7	4336.0	4176.6	4010.2	3686.8	3625.9
50°	12839.3	6623.6	4104.0	3972.7	4148.5	4317.3	4237.6	4010.2	3759.5	3602.4	3581.3
52.5°	13645.6	6907.2	4005.5	3768.8	3968.0	4242.3	4202.4	3972.7	3663.4	3508.7	3480.5
55°	14559.7	7193.1	3881.3	3532.1	3773.5	4207.1	4186.0	3836.8	3590.7	3504.0	3482.9
57.5°	15696.4	7518.9	3717.3	3286.0	3590.7	4080.6	4014.9	3754.8	3515.7	3450.1	3443.0
60°	17177.7	7999.4	3480.5	3023.5	3368.0	3886.0	3872.0	3635.2	3396.2	3349.3	3339.9
62.5°	19399.6	8793.9	3154.8	2761.0	3119.6	3555.5	3684.4	3473.5	3269.6	3267.3	3271.9
65°	22845.0	9989.3	2800.8	2531.3	2868.8	3276.6	3466.5	3307.1	3140.7	3187.6	3194.6
67.5°	26838.8	10980.7	2454.0	2306.3	2613.3	3011.8	3269.6	3140.7	2969.6	3091.5	3093.8
70°	28167.7	10094.7	2149.3	2083.6	2348.5	2756.3	3056.3	2957.9	2784.4	2906.3	2894.6
72°	26213.0	8149.4	1952.4	1914.9	2149.3	2545.4	2866.5	2786.8	2615.7	2697.7	2667.2
72.5°	25596.6	7769.7	1903.2	1872.7	2095.4	2491.5	2817.2	2744.6	2573.5	2643.8	2615.7
75°	22833.3	6747.8	1636.0	1643.0	1828.2	2229.0	2540.7	2517.2	2341.5	2348.5	2339.1
77.5°	16561.3	4947.8	1378.2	1425.0	1556.3	1959.4	2261.8	2247.7	2055.5	2020.4	2013.3
80°	7685.3	2524.3	1122.7	1143.8	1279.7	1638.3	1928.9	1910.2	1755.5	1711.0	1685.2
82.5°	2632.1	1200.0	843.8	857.8	991.4	1319.6	1673.5	1661.8	1532.8	1446.1	1392.2
85°	939.9	597.7	590.6	576.6	707.8	1038.3	1457.8	1394.6	1204.7	1026.6	1021.9
87.5°	304.7	255.5	304.7	302.3	412.5	703.1	1059.4	902.4	874.2	726.6	712.5
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)