

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: P268548

Luminaire Tested: **GAN-AF-05-LED-U-T3-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268548
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-05-LED-U-T3-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28359.9 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

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: 28.75 FT

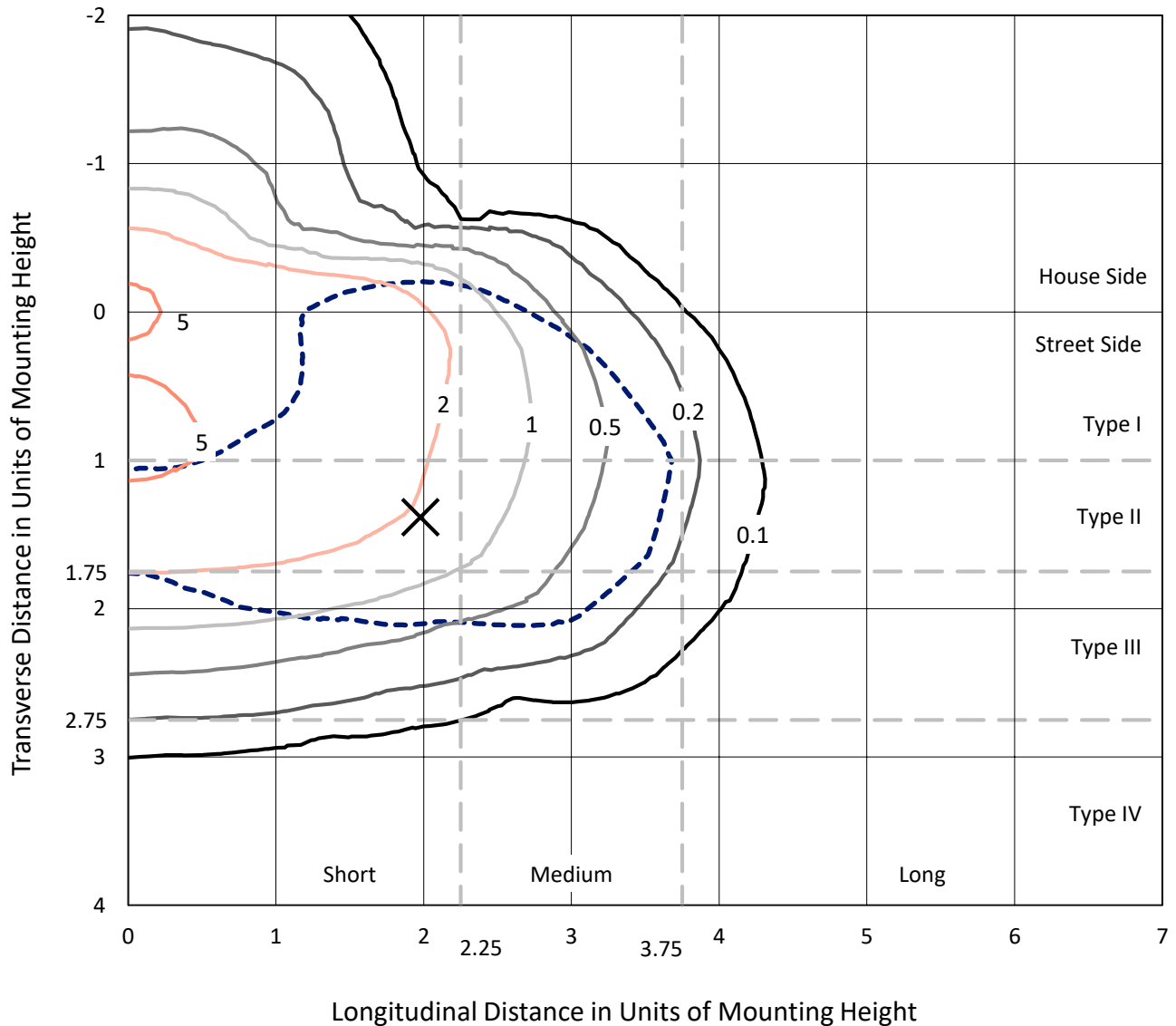


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Iso-Footcandle Lines of Horizontal Illumination

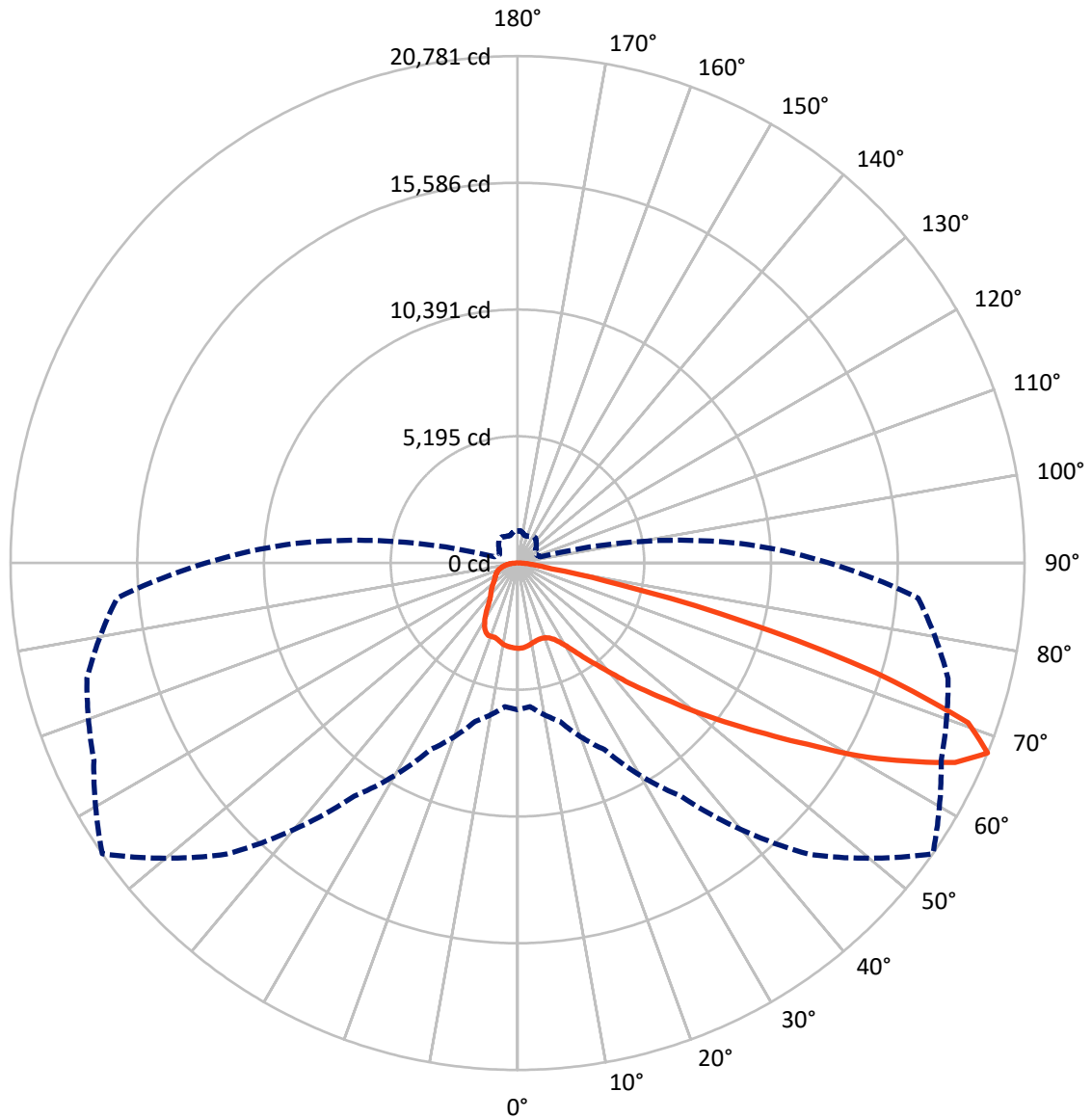
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6126.3	0.0	6126.3
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	22233.6	0.0	22233.6
	% Fixture	78.4	0.0	78.4
Total	Lumens	28359.9	0.0	28359.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.4	1.2
10°-20°	924.5	3.3
20°-30°	1548.6	5.5
30°-40°	2546.5	9.0
40°-50°	4286.6	15.1
50°-60°	6746.8	23.8
60°-70°	8051.6	28.4
70°-80°	3457.5	12.2
80°-90°	471.4	1.7
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°	28359.9	100.0
0°-180°	28359.9	100.0

Coefficient of Utilization



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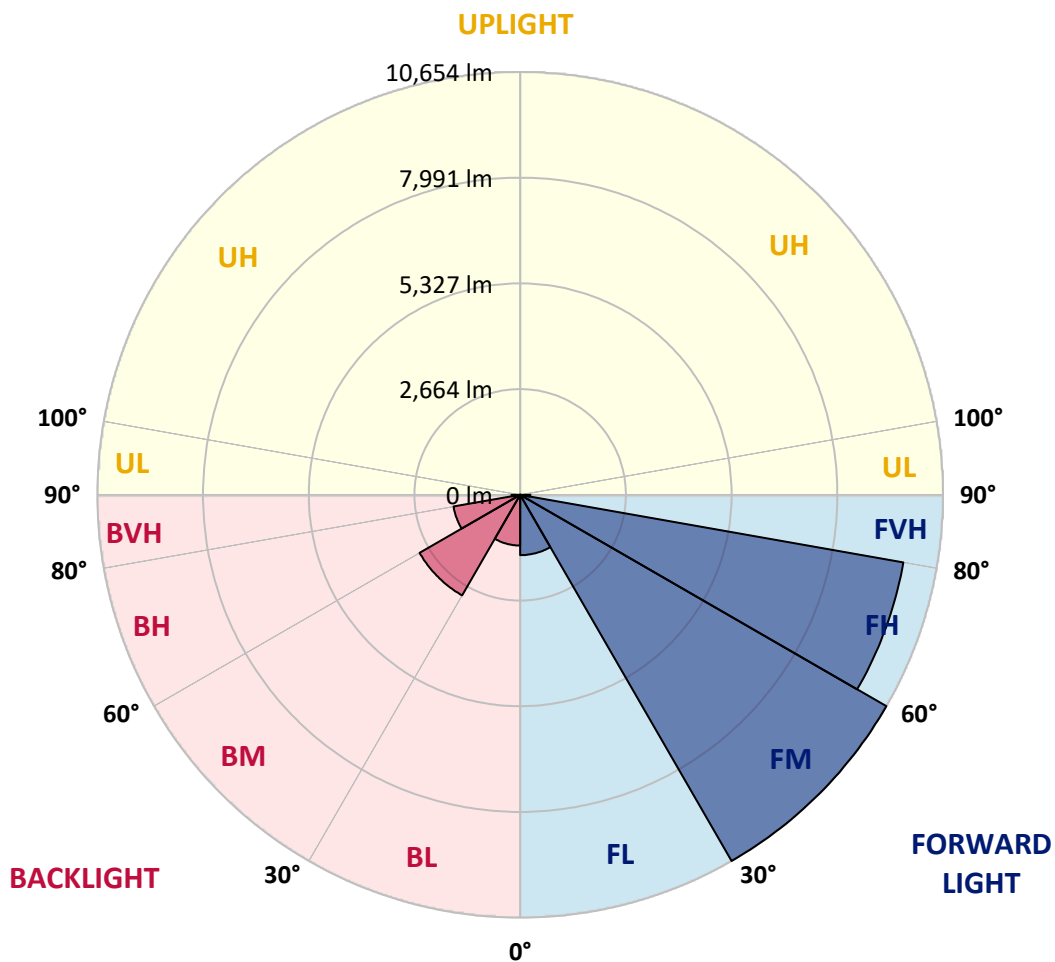
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1520.2	5.4			
FM	(30°-60°)	10654.1	37.6			
FH	(60°-80°)	9804.2	34.6			G4/12000
FVH	(80°-90°)	255.2	0.9			G3/500
BL	(0°-30°)	1279.3	4.5	B3/2500		
BM	(30°-60°)	2925.9	10.3	B3/5000		
BH	(60°-80°)	1704.9	6.0	B3/2500		G3/2500
BVH	(80°-90°)	216.2	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3497.1	3497.1	3497.1	3497.1	3497.1	3497.1	3497.1	3497.1	3497.1	3497.1	3497.1
2.5°	3467.0	3468.4	3471.1	3482.0	3491.6	3488.8	3490.3	3484.7	3483.4	3475.2	3483.4
5°	3423.1	3427.3	3428.7	3446.3	3457.3	3460.1	3456.0	3449.1	3440.9	3432.8	3436.8
7.5°	3323.1	3334.1	3335.4	3360.1	3377.8	3401.3	3402.6	3403.9	3399.8	3394.3	3402.6
10°	3260.0	3262.9	3261.4	3279.4	3292.9	3319.0	3334.1	3360.1	3371.1	3373.9	3379.2
12.5°	3255.9	3253.2	3249.2	3249.2	3245.0	3255.9	3283.3	3320.3	3346.4	3354.6	3361.5
15°	3299.8	3298.4	3284.7	3264.3	3238.2	3229.9	3253.2	3294.4	3328.6	3346.4	3353.3
17.5°	3398.5	3390.3	3368.4	3321.8	3265.6	3243.7	3246.5	3280.7	3320.3	3343.8	3350.5
20°	3579.2	3579.2	3532.8	3445.0	3345.1	3292.9	3268.4	3288.9	3327.2	3358.8	3368.4
22.5°	3891.5	3894.3	3816.3	3672.5	3503.8	3393.0	3331.4	3327.2	3372.4	3408.1	3418.9
25°	4334.1	4323.1	4213.5	4008.0	3752.0	3568.2	3461.4	3436.8	3475.2	3514.9	3528.6
27.5°	4849.1	4809.3	4679.2	4431.2	4099.9	3831.4	3666.9	3627.3	3664.1	3709.5	3723.0
30°	5358.6	5317.5	5162.7	4891.5	4523.1	4183.3	3947.7	3883.4	3935.5	3999.9	4008.0
32.5°	5868.2	5868.2	5695.7	5379.2	4977.9	4603.9	4321.7	4245.0	4331.3	4409.4	4427.1
35°	6477.8	6480.6	6313.4	5932.5	5501.1	5105.2	4794.3	4738.1	4868.3	4923.0	4965.6
37.5°	7227.0	7242.0	7027.0	6566.8	6094.2	5677.7	5307.9	5231.2	5361.4	5510.7	5647.6
40°	8036.5	8055.8	7818.8	7251.7	6779.1	6343.6	5943.5	5805.1	6021.6	6306.6	6483.2
42.5°	8809.1	8907.8	8679.1	8095.4	7587.4	7136.7	6731.2	6529.8	6801.1	7231.1	7384.5
45°	9925.6	9996.8	9598.2	9069.4	8591.4	8087.4	7550.3	7338.0	7717.3	8259.8	8291.4
47.5°	10669.3	10615.9	10413.2	10084.5	9781.7	9310.6	8502.3	8269.4	8773.6	9411.8	9235.1
50°	11065.2	11081.6	11054.3	11073.4	11084.4	10788.6	9669.4	9350.2	9951.6	10722.8	10316.0
52.5°	11435.1	11325.6	11415.9	11865.2	12407.6	12298.1	10939.2	10606.3	11214.5	12177.5	11458.3
55°	11426.8	11259.7	11554.2	12347.4	13524.1	13650.0	12365.1	11981.7	12550.1	13737.7	12669.2
57.5°	11022.7	11030.9	11484.3	12522.6	14302.0	14921.1	14019.8	13444.6	13966.4	15318.3	13774.7
60°	10466.6	10541.9	11195.3	12493.8	14925.2	15963.6	16049.8	15021.2	15354.0	16755.4	14689.7
62.5°	9569.4	9648.9	10550.1	12195.3	14830.7	16967.6	17885.4	16810.2	16804.7	17626.5	14958.1
65°	8154.4	8131.1	9077.6	11078.8	14037.6	17710.1	19708.6	18356.7	17897.7	17640.2	14418.4
67.5°	6013.4	5909.3	6721.6	8437.9	11667.9	16878.7	20781.2	19162.0	18270.3	16479.9	12769.2
70°	3120.4	3016.2	3673.8	4927.2	7673.6	13173.4	19593.6	18745.7	17447.2	13814.3	10003.6
72.5°	1334.3	1316.3	1583.5	2161.5	3712.2	7598.3	15363.6	16225.2	14970.6	10292.6	6877.8
75°	897.1	891.7	991.6	1178.0	1669.8	3083.4	9614.6	11517.2	10952.9	6381.9	3868.3
77.5°	704.1	697.3	756.2	846.6	1082.2	1216.3	4266.9	6183.3	5723.0	2778.0	1693.0
80°	550.7	545.2	582.1	631.5	778.0	767.2	1404.1	2460.2	1904.0	1064.3	823.2
82.5°	434.2	434.2	464.3	465.7	552.0	523.3	732.8	1083.5	950.6	620.5	504.0
85°	397.2	397.2	428.8	348.0	360.3	330.0	454.8	642.5	602.8	254.8	219.1
87.5°	200.1	194.6	360.3	308.2	195.9	175.3	221.9	311.0	334.2	141.2	109.7
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3497.1	3497.1	3497.1	3497.1	3497.1	3497.1	3497.1	3497.1	3497.1	3497.1
2.5°	3480.7	3479.2	3482.0	3483.4	3494.3	3509.4	3516.2	3525.8	3531.3	3528.6
5°	3439.6	3442.2	3453.3	3461.4	3480.7	3505.2	3519.0	3530.0	3539.5	3535.4
7.5°	3405.4	3412.1	3428.7	3435.5	3446.3	3453.3	3451.8	3456.0	3464.3	3454.6
10°	3386.2	3394.3	3406.7	3397.1	3371.1	3334.1	3299.8	3282.0	3287.4	3280.7
12.5°	3366.9	3377.8	3368.4	3323.1	3250.5	3202.5	3176.5	3179.3	3191.6	3194.4
15°	3356.0	3360.1	3319.0	3234.1	3160.1	3153.3	3167.0	3164.2	3165.5	3165.5
17.5°	3356.0	3345.1	3268.4	3183.5	3152.0	3139.5	3097.0	3043.6	3020.5	3012.1
20°	3373.9	3345.1	3251.9	3195.7	3127.2	3021.8	2909.4	2810.8	2767.0	2754.7
22.5°	3427.3	3377.8	3298.4	3201.2	3006.6	2830.0	2651.9	2534.1	2454.7	2441.0
25°	3535.4	3480.7	3390.3	3128.5	2814.8	2562.9	2360.1	2228.7	2149.3	2138.2
27.5°	3724.5	3688.9	3439.6	2968.4	2560.2	2290.3	2102.7	2001.2	1942.3	1938.3
30°	4009.3	3991.6	3414.8	2731.3	2246.4	2025.9	1935.5	1876.6	1832.8	1831.5
32.5°	4464.1	4320.3	3334.1	2442.3	1960.2	1838.2	1801.3	1765.7	1731.5	1731.5
35°	5049.1	4586.0	3180.7	2132.8	1786.2	1734.2	1687.6	1631.4	1586.2	1583.5
37.5°	5736.7	4750.4	2905.4	1883.4	1704.1	1664.3	1595.7	1512.2	1432.7	1419.1
40°	6431.1	4799.7	2517.7	1730.0	1652.0	1594.4	1510.9	1412.2	1335.5	1331.5
42.5°	7068.1	4705.2	2106.7	1624.6	1599.9	1523.3	1435.5	1347.8	1287.6	1286.3
45°	7602.4	4460.1	1761.5	1524.6	1545.2	1458.8	1380.8	1309.5	1262.9	1253.3
47.5°	8105.0	4113.5	1519.2	1419.1	1490.4	1423.3	1357.5	1290.3	1245.1	1238.4
50°	8688.5	3739.6	1349.3	1316.3	1442.4	1410.9	1376.7	1306.8	1231.4	1223.2
52.5°	9395.5	3416.3	1216.3	1225.9	1405.4	1427.3	1426.0	1353.3	1221.9	1210.8
55°	10184.4	3057.4	1116.4	1151.9	1390.3	1457.5	1438.2	1397.3	1230.0	1213.6
57.5°	10961.1	2638.2	1046.5	1095.8	1368.4	1454.7	1379.3	1320.5	1249.3	1225.9
60°	11543.3	2075.3	993.0	1046.5	1320.5	1409.5	1314.9	1237.0	1245.1	1227.4
62.5°	11581.6	1604.1	928.7	1004.0	1247.8	1364.3	1272.4	1200.0	1262.9	1246.5
65°	10900.8	1212.3	867.0	953.5	1169.9	1335.5	1231.4	1179.4	1299.9	1282.2
67.5°	9177.7	975.3	815.0	901.3	1091.7	1275.2	1194.4	1160.3	1332.8	1301.4
70°	6625.7	831.6	764.4	838.3	1021.8	1206.9	1161.6	1125.9	1243.8	1194.4
72.5°	4079.3	720.5	706.8	754.8	968.5	1135.5	1112.3	1061.5	1120.5	1080.8
75°	2036.8	624.6	642.5	672.7	893.2	1054.7	1030.0	979.4	987.6	979.4
77.5°	975.3	534.2	567.1	590.4	795.9	963.0	936.9	884.9	875.3	876.7
80°	617.8	446.5	478.1	494.4	710.9	856.2	830.2	778.0	887.6	823.2
82.5°	386.4	362.9	371.2	401.4	619.1	745.1	710.9	664.3	800.0	632.9
85°	213.6	253.4	264.5	290.4	476.7	623.2	589.0	530.1	475.4	467.1
87.5°	127.4	150.6	154.8	173.9	320.5	450.7	398.6	378.0	313.7	312.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)