

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: P193176

Luminaire Tested: **GAN-AF-08-LED-U-T3-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193176
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-08-LED-U-T3-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30405.7 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

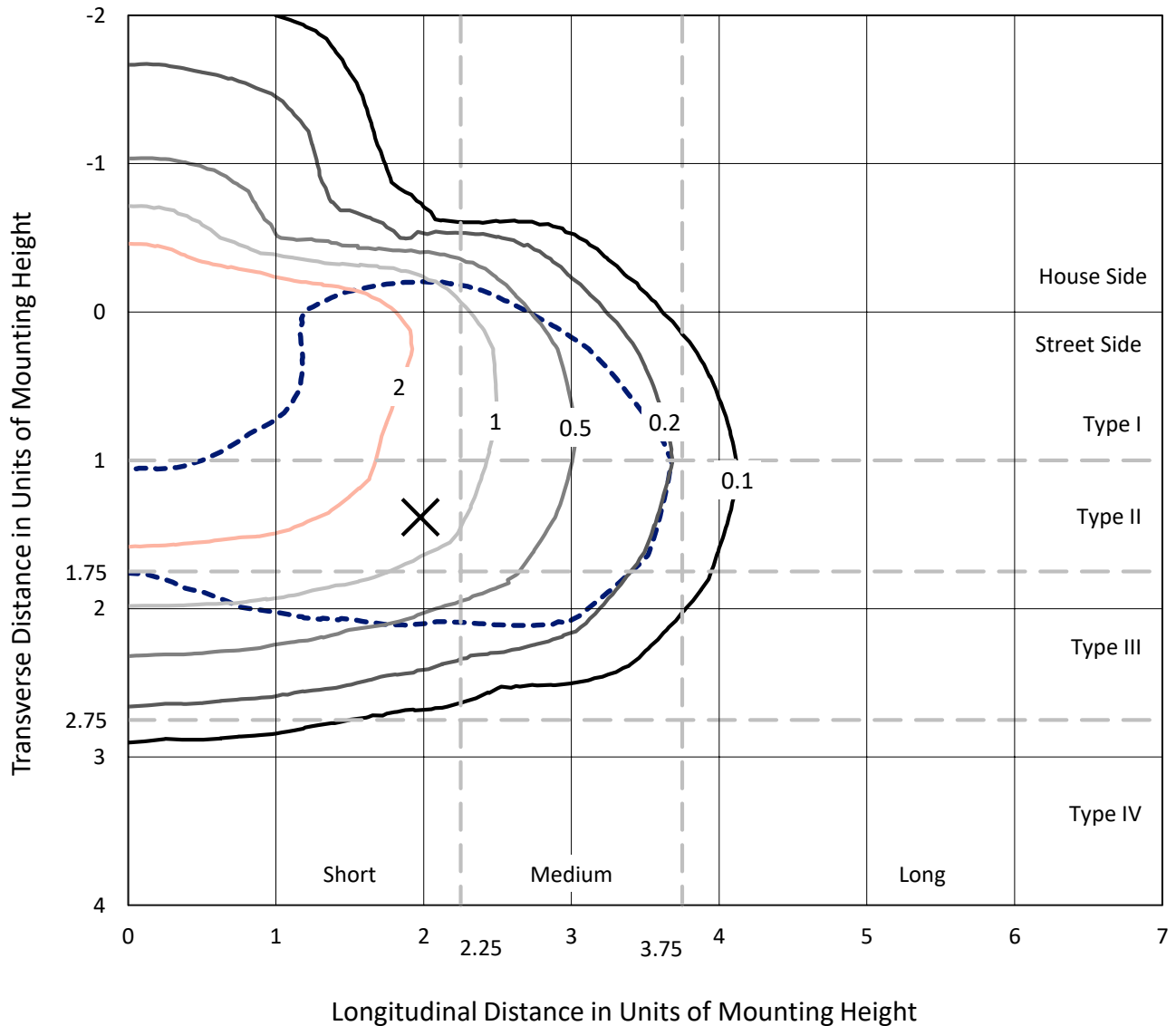
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

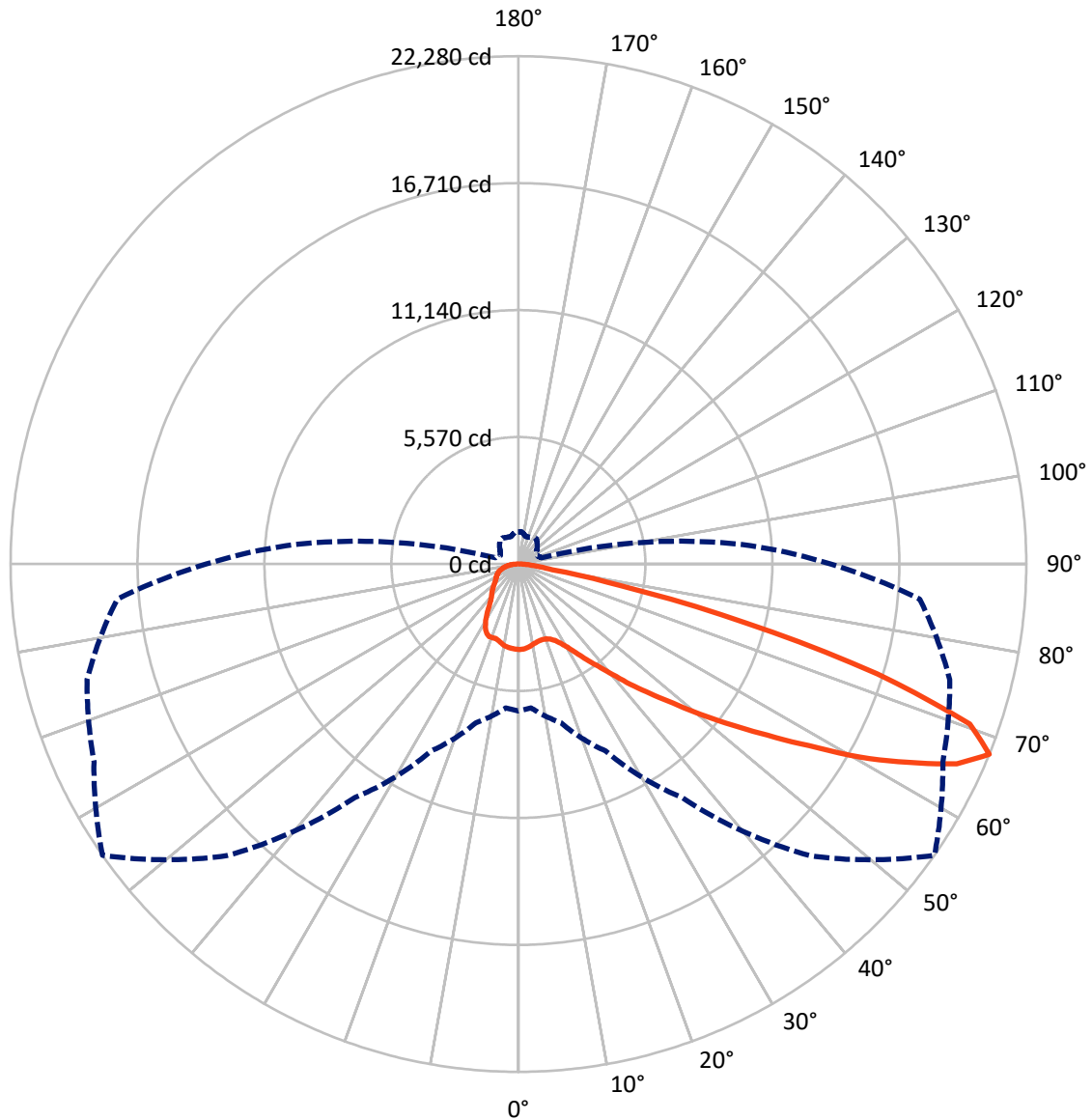
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.3 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	6568.3	0.0	6568.3
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	23837.5	0.0	23837.5
	% Fixture	78.4	0.0	78.4
Total	Lumens	30405.7	0.0	30405.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.0	1.2
10°-20°	991.1	3.3
20°-30°	1660.3	5.5
30°-40°	2730.2	9.0
40°-50°	4595.8	15.1
50°-60°	7233.5	23.8
60°-70°	8632.4	28.4
70°-80°	3706.9	12.2
80°-90°	505.4	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°	30405.7	100.0
0°-180°	30405.7	100.0



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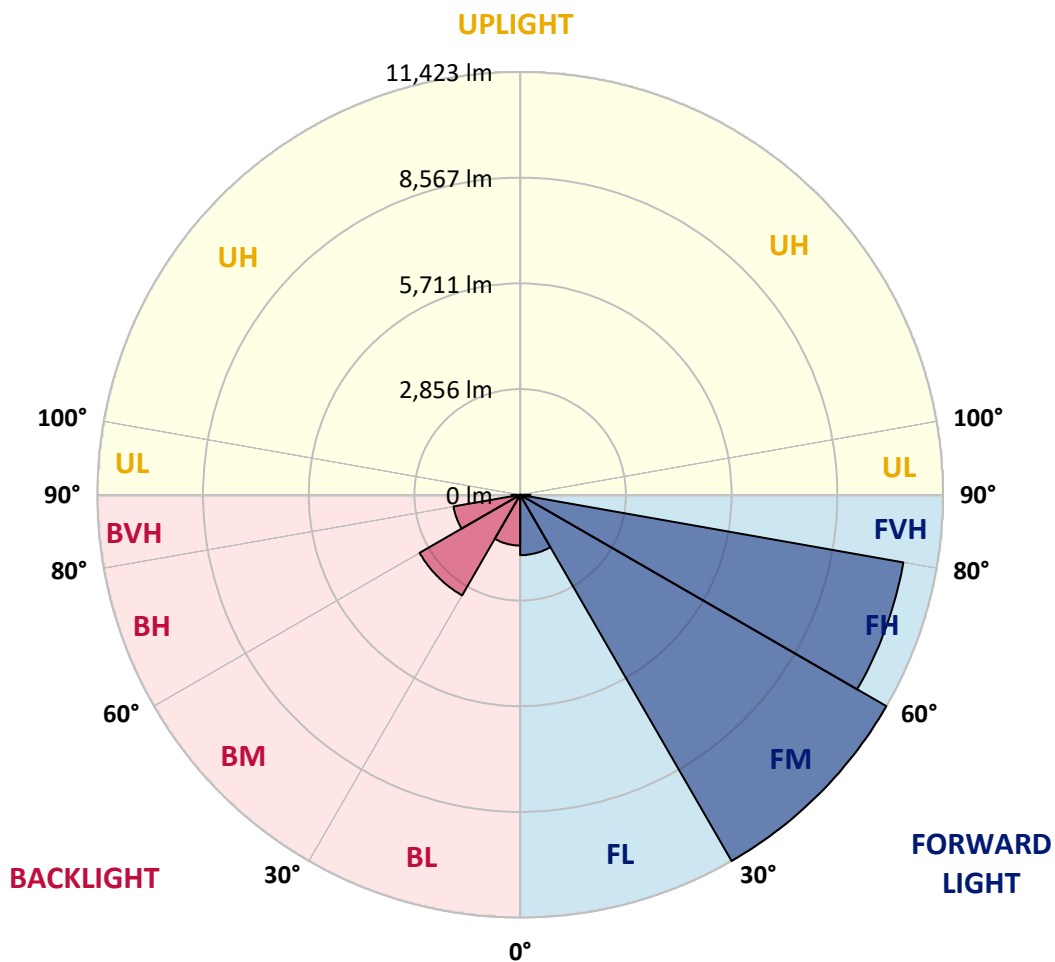
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1629.8	5.4			
FM	(30°-60°)	11422.7	37.6			
FH	(60°-80°)	10511.4	34.6			G4/12000
FVH	(80°-90°)	273.6	0.9			G3/500
BL	(0°-30°)	1371.6	4.5	B3/2500		
BM	(30°-60°)	3136.9	10.3	B3/5000		
BH	(60°-80°)	1827.9	6.0	B3/2500		G3/2500
BVH	(80°-90°)	231.8	0.8			G3/500
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°	3749.3	3749.3	3749.3	3749.3	3749.3	3749.3	3749.3	3749.3	3749.3	3749.3	3749.3
2.5°	3717.0	3718.5	3721.5	3733.2	3743.4	3740.6	3742.0	3736.1	3734.7	3725.8	3734.7
5°	3670.0	3674.5	3675.9	3695.0	3706.7	3709.7	3705.3	3698.0	3689.1	3680.3	3684.8
7.5°	3562.8	3574.6	3576.0	3602.5	3621.6	3646.5	3648.0	3649.5	3645.1	3639.2	3648.0
10°	3495.3	3498.3	3496.8	3515.9	3530.5	3558.5	3574.6	3602.5	3614.3	3617.1	3623.0
12.5°	3490.9	3488.0	3483.5	3483.5	3479.2	3490.9	3520.3	3559.8	3587.8	3596.6	3603.9
15°	3538.0	3536.4	3521.8	3499.7	3471.8	3463.0	3488.0	3532.1	3568.7	3587.8	3595.1
17.5°	3643.6	3634.8	3611.3	3561.5	3501.2	3477.7	3480.6	3517.3	3559.8	3584.9	3592.2
20°	3837.5	3837.5	3787.6	3693.5	3586.3	3530.5	3504.1	3526.2	3567.2	3601.0	3611.3
22.5°	4172.3	4175.3	4091.5	3937.3	3756.7	3637.8	3571.6	3567.2	3615.7	3653.8	3665.6
25°	4646.7	4634.9	4517.5	4297.1	4022.5	3825.7	3711.2	3684.8	3725.8	3768.5	3783.1
27.5°	5198.9	5156.3	5016.7	4750.9	4395.5	4107.7	3931.4	3888.9	3928.5	3977.0	3991.7
30°	5745.2	5701.1	5535.2	5244.5	4849.4	4485.1	4232.4	4163.6	4219.3	4288.3	4297.1
32.5°	6291.4	6291.4	6106.5	5767.2	5336.9	4936.0	4633.4	4551.2	4643.7	4727.4	4746.6
35°	6945.1	6948.1	6768.8	6360.5	5898.0	5473.6	5140.1	5079.9	5219.5	5278.2	5323.7
37.5°	7748.3	7764.5	7534.0	7040.5	6533.8	6087.4	5690.9	5608.6	5748.1	5908.2	6055.0
40°	8616.3	8637.0	8382.8	7774.8	7268.2	6801.2	6372.3	6224.0	6456.0	6761.5	6951.0
42.5°	9444.6	9550.4	9305.1	8679.4	8134.7	7651.4	7216.8	7000.9	7291.6	7752.8	7917.3
45°	10641.6	10717.9	10290.6	9723.6	9211.1	8670.7	8095.0	7867.3	8274.2	8855.7	8889.6
47.5°	11439.0	11381.7	11164.3	10811.9	10487.4	9982.2	9115.7	8866.0	9406.4	10090.8	9901.4
50°	11863.5	11881.1	11851.7	11872.2	11884.0	11566.7	10366.9	10024.7	10669.5	11496.3	11060.1
52.5°	12260.0	12142.4	12239.4	12721.0	13302.7	13185.2	11728.3	11371.4	12023.6	13055.9	12284.9
55°	12251.1	12071.9	12387.7	13238.1	14499.6	14634.7	13257.2	12845.9	13455.4	14728.7	13583.2
57.5°	11817.9	11826.8	12312.9	13426.0	15333.8	15997.5	15031.3	14414.5	14974.0	16423.6	14768.3
60°	11221.7	11302.5	12003.0	13395.1	16002.0	17115.1	17207.7	16104.9	16461.6	17964.1	15749.4
62.5°	10259.7	10344.8	11311.3	13075.0	15900.6	18191.6	19175.6	18022.8	18017.0	18898.0	16037.2
65°	8742.6	8717.7	9732.5	11878.1	15050.4	18987.6	21130.4	19680.9	19188.8	18912.8	15458.5
67.5°	6447.2	6335.6	7206.5	9046.6	12509.6	18096.2	22280.2	20544.3	19588.3	17668.9	13690.4
70°	3345.5	3233.8	3938.8	5282.5	8227.1	14123.6	21007.0	20097.9	18705.7	14810.9	10725.2
72.5°	1430.4	1411.3	1697.7	2317.5	3980.0	8146.4	16471.9	17395.7	16050.4	11035.1	7373.9
75°	961.9	956.0	1063.3	1263.0	1790.2	3305.8	10308.2	12348.1	11742.9	6842.3	4147.4
77.5°	754.9	747.6	810.7	907.6	1160.3	1304.1	4574.6	6629.3	6135.9	2978.3	1815.3
80°	590.3	584.5	624.2	677.1	834.2	822.4	1505.4	2637.6	2041.4	1141.1	882.6
82.5°	465.6	465.6	497.9	499.4	591.8	561.0	785.7	1161.7	1019.2	665.3	540.4
85°	425.9	425.9	459.7	373.0	386.2	353.9	487.7	688.8	646.2	273.1	235.0
87.5°	214.3	208.5	386.2	330.4	210.0	188.0	237.9	333.3	358.4	151.3	117.5
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3749.3	3749.3	3749.3	3749.3	3749.3	3749.3	3749.3	3749.3	3749.3	3749.3
2.5°	3731.7	3730.2	3733.2	3734.7	3746.4	3762.6	3769.9	3780.2	3786.1	3783.1
5°	3687.7	3690.7	3702.4	3711.2	3731.7	3758.2	3772.8	3784.6	3794.9	3790.5
7.5°	3651.0	3658.3	3675.9	3683.2	3695.0	3702.4	3700.9	3705.3	3714.2	3703.9
10°	3630.3	3639.2	3652.4	3642.1	3614.3	3574.6	3538.0	3518.8	3524.7	3517.3
12.5°	3609.8	3621.6	3611.3	3562.8	3485.1	3433.6	3405.7	3408.7	3421.9	3424.8
15°	3598.1	3602.5	3558.5	3467.4	3388.1	3380.7	3395.4	3392.5	3393.9	3393.9
17.5°	3598.1	3586.3	3504.1	3413.0	3379.3	3366.1	3320.5	3263.2	3238.3	3229.4
20°	3617.1	3586.3	3486.5	3426.3	3352.8	3239.7	3119.4	3013.6	2966.6	2953.4
22.5°	3674.5	3621.6	3536.4	3432.2	3223.5	3034.1	2843.3	2717.0	2631.7	2617.1
25°	3790.5	3731.7	3634.8	3354.3	3018.0	2747.8	2530.5	2389.4	2304.3	2292.5
27.5°	3993.1	3954.9	3687.7	3182.5	2744.8	2455.5	2254.3	2145.7	2082.5	2078.1
30°	4298.6	4279.5	3661.3	2928.3	2408.5	2172.1	2075.2	2012.0	1965.0	1963.5
32.5°	4786.2	4632.0	3574.6	2618.5	2101.6	1970.9	1931.2	1893.0	1856.4	1856.4
35°	5413.2	4916.8	3410.1	2286.6	1915.1	1859.3	1809.4	1749.1	1700.6	1697.7
37.5°	6150.5	5093.1	3114.9	2019.3	1827.0	1784.3	1710.9	1621.3	1536.1	1521.4
40°	6895.2	5146.0	2699.4	1854.9	1771.1	1709.5	1619.9	1514.2	1431.9	1427.5
42.5°	7578.0	5044.7	2258.7	1741.8	1715.4	1633.1	1539.1	1445.1	1380.5	1379.1
45°	8150.7	4781.8	1888.6	1634.5	1656.6	1564.0	1480.4	1404.0	1354.0	1343.8
47.5°	8689.7	4410.2	1628.7	1521.4	1597.8	1526.0	1455.5	1383.4	1334.9	1327.6
50°	9315.5	4009.3	1446.6	1411.3	1546.4	1512.7	1476.0	1401.0	1320.3	1311.4
52.5°	10073.1	3662.7	1304.1	1314.4	1506.8	1530.2	1528.9	1451.0	1310.0	1298.2
55°	10919.2	3277.9	1196.9	1235.0	1490.7	1562.6	1542.0	1498.0	1318.8	1301.2
57.5°	11751.8	2828.5	1122.0	1174.9	1467.2	1559.6	1479.0	1415.8	1339.4	1314.4
60°	12376.1	2224.9	1064.7	1122.0	1415.8	1511.2	1409.9	1326.2	1334.9	1315.9
62.5°	12417.1	1719.7	995.7	1076.5	1337.9	1462.8	1364.3	1286.5	1354.0	1336.5
65°	11687.3	1299.7	929.6	1022.1	1254.2	1431.9	1320.3	1264.4	1393.7	1374.6
67.5°	9839.7	1045.6	873.8	966.4	1170.5	1367.3	1280.6	1243.9	1429.0	1395.1
70°	7103.7	891.4	819.5	898.7	1095.6	1293.8	1245.3	1207.2	1333.5	1280.6
72.5°	4373.5	772.5	757.8	809.2	1038.3	1217.4	1192.6	1138.2	1201.3	1158.7
75°	2183.9	669.6	688.8	721.1	957.5	1130.9	1104.4	1050.1	1058.8	1050.1
77.5°	1045.6	572.7	608.0	632.9	853.4	1032.4	1004.5	948.7	938.4	939.9
80°	662.3	478.8	512.5	530.1	762.2	917.9	890.0	834.2	951.6	882.6
82.5°	414.2	389.2	398.0	430.3	663.9	798.9	762.2	712.3	857.6	678.5
85°	229.1	271.7	283.4	311.4	511.2	668.2	631.5	568.3	509.5	500.9
87.5°	136.6	161.6	166.0	186.5	343.6	483.2	427.3	405.4	336.3	334.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)