

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: P194065

Luminaire Tested: **GAN-AF-07-LED-U-T4FT-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194065
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-07-LED-U-T4FT-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27924 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 295
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

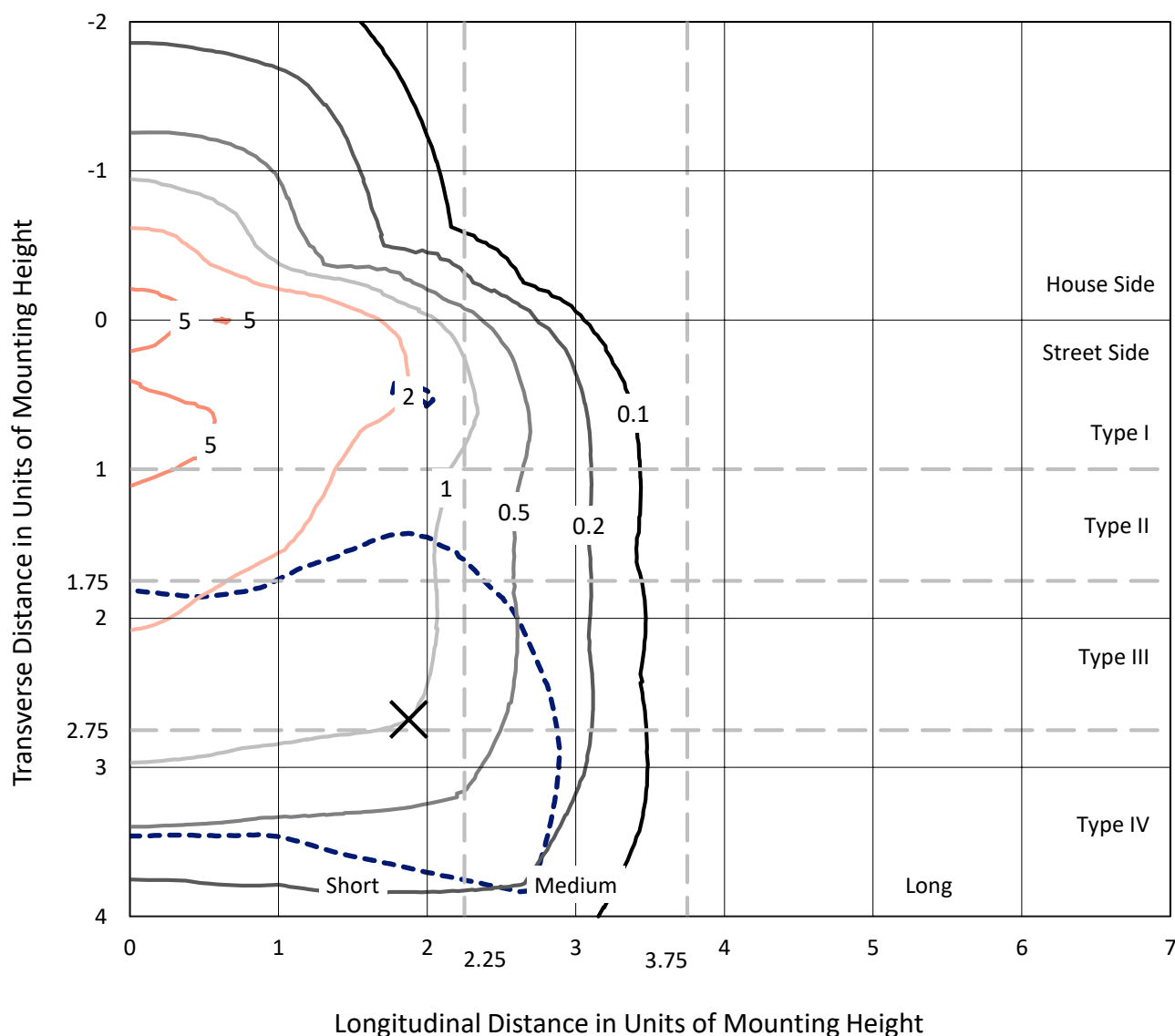


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

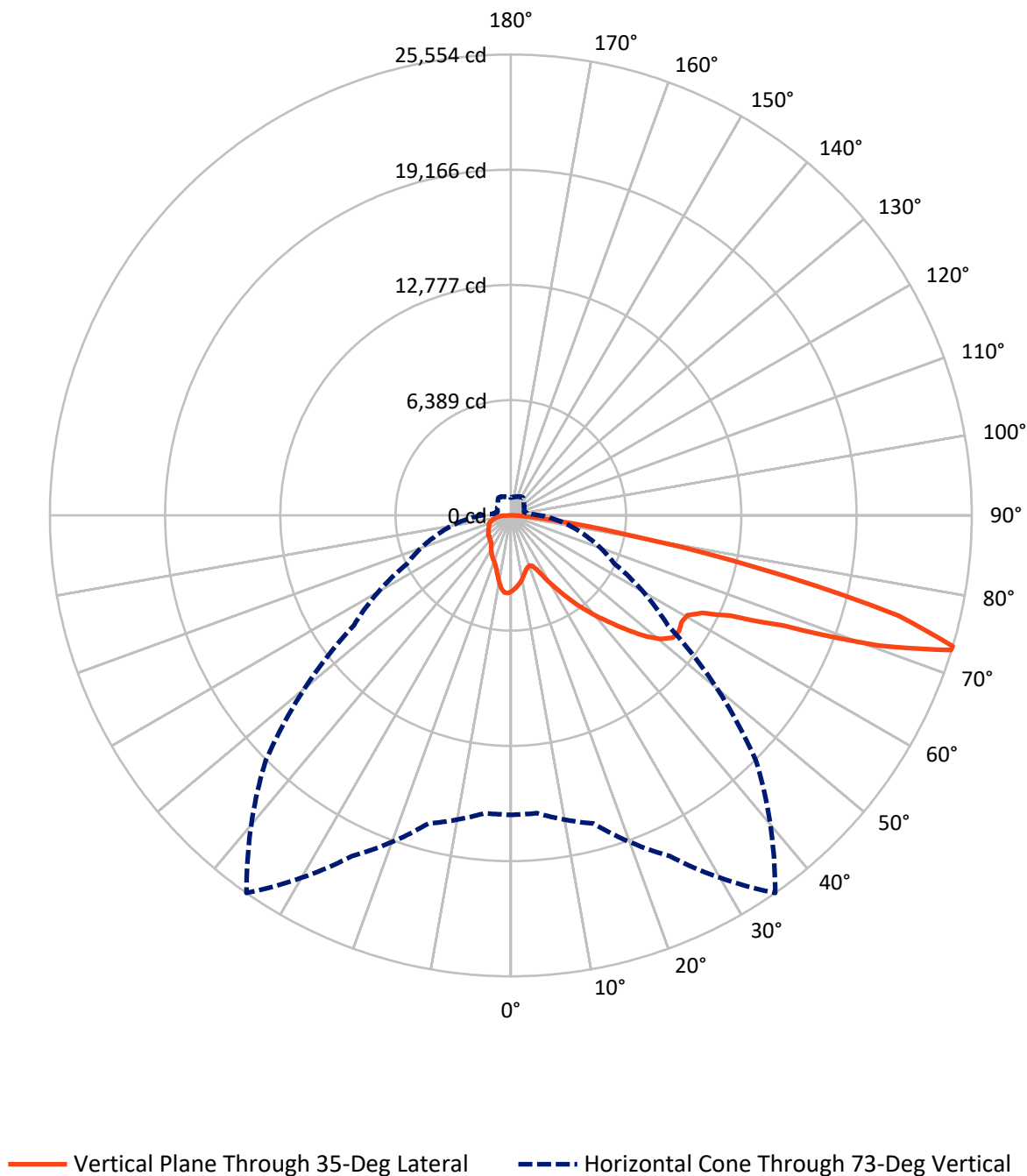


Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5325.9	0.0	5325.9
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	22598.1	0.0	22598.1
	% Fixture	80.9	0.0	80.9
Total	Lumens	27924.0	0.0	27924.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.5	1.4
10°-20°	952.3	3.4
20°-30°	1539.5	5.5
30°-40°	2581.5	9.2
40°-50°	3979.3	14.3
50°-60°	5338.6	19.1
60°-70°	7112.1	25.5
70°-80°	5424.4	19.4
80°-90°	614.8	2.2
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°	27924.0	100.0
0°-180°	27924.0	100.0

Coefficient of Utilization



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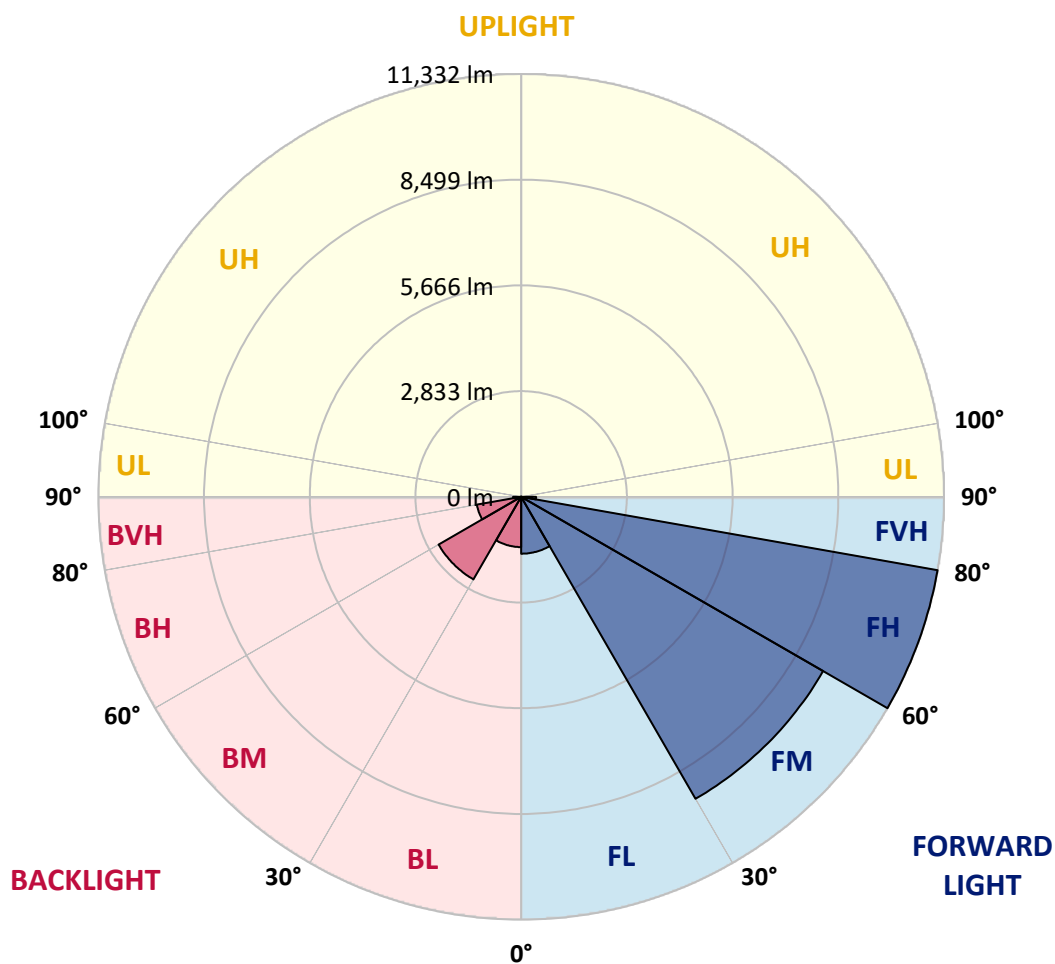
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1525.6	5.5			
FM	(30°-60°)	9343.5	33.5			
FH	(60°-80°)	11331.6	40.6			G4/12000
FVH	(80°-90°)	397.4	1.4			G3/500
BL	(0°-30°)	1347.7	4.8	B3/2500		
BM	(30°-60°)	2555.8	9.2	B3/5000		
BH	(60°-80°)	1204.9	4.3	B3/2500		G3/2500
BVH	(80°-90°)	217.4	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4214.6	4214.6	4214.6	4214.6	4214.6	4214.6	4214.6	4214.6	4214.6	4214.6	4214.6
2.5°	4048.3	4056.4	4047.0	4059.0	4079.2	4100.6	4115.4	4136.8	4161.0	4194.5	4202.5
5°	3857.9	3870.0	3870.0	3891.4	3930.3	3965.2	3997.4	4032.2	4083.2	4140.8	4163.6
7.5°	3648.7	3655.4	3667.5	3699.7	3756.0	3805.6	3851.2	3907.5	3977.3	4053.7	4093.9
10°	3396.6	3406.0	3424.8	3470.4	3546.8	3615.2	3680.9	3758.7	3847.2	3942.4	3993.3
12.5°	3218.3	3215.6	3223.6	3257.2	3324.2	3407.3	3502.6	3601.8	3710.4	3821.7	3883.4
15°	3157.9	3143.2	3112.3	3104.3	3140.5	3223.6	3333.6	3455.6	3585.7	3719.8	3796.2
17.5°	3195.5	3170.0	3085.5	3023.8	3018.5	3081.5	3198.2	3334.9	3485.1	3648.7	3743.9
20°	3431.5	3371.1	3163.3	3019.8	2970.2	3001.0	3103.0	3247.8	3424.8	3642.0	3764.0
22.5°	3996.0	3907.5	3466.4	3199.5	3031.9	2994.3	3070.8	3225.0	3431.5	3725.2	3880.7
25°	4818.0	4692.0	3986.6	3647.4	3301.4	3101.6	3119.0	3277.3	3526.7	3918.2	4106.0
27.5°	5467.0	5385.2	4666.5	4279.0	3792.2	3391.3	3275.9	3408.7	3721.1	4234.7	4426.5
30°	5853.2	5803.6	5393.3	4995.0	4418.4	3852.5	3576.3	3655.4	4025.5	4673.2	4831.4
32.5°	6301.1	6271.6	6070.5	5704.4	5094.3	4458.7	4052.3	4024.2	4433.2	5200.2	5272.6
35°	6765.1	6755.7	6637.7	6374.9	5819.7	5257.9	4683.9	4493.5	4877.0	5747.3	5701.7
37.5°	7196.9	7180.8	7112.4	6959.5	6578.7	6116.1	5327.6	4974.9	5355.7	6270.3	6067.8
40°	7992.0	7866.0	7631.3	7516.0	7345.7	6838.8	5838.5	5424.1	5851.9	6769.1	6384.3
42.5°	8961.6	8756.4	8319.2	8161.0	8136.9	7408.7	6187.1	5859.9	6352.1	7263.9	6695.4
45°	9724.6	9531.5	9154.7	8954.8	9043.4	7925.0	6537.1	6325.3	6867.0	7782.9	7015.8
47.5°	10538.5	10235.5	9736.6	9797.0	9990.1	8413.1	6893.8	6825.4	7431.5	8363.5	7414.1
50°	10568.0	10336.0	10117.5	10478.2	10778.5	8862.3	7340.3	7349.7	8122.1	9094.3	7943.8
52.5°	9955.2	9905.6	10252.9	10820.1	11253.2	9217.7	7848.6	7891.5	9005.8	9933.7	8525.7
55°	9740.6	9684.3	10085.3	10700.8	11317.6	9511.3	8399.7	8477.5	10074.5	10818.8	9093.0
57.5°	10263.6	10138.9	10165.7	10644.4	11160.7	9833.2	9000.4	9157.3	11235.8	11592.5	9457.7
60°	11725.2	11458.4	10951.5	10939.5	11245.2	10315.9	9695.1	9886.8	12442.7	11962.6	9315.6
62.5°	13775.6	13508.7	12559.3	11941.1	11895.5	11112.4	10547.9	10598.9	13139.9	11461.1	8448.0
65°	15994.8	15756.1	14695.4	13822.5	13401.4	12431.9	11538.9	10916.7	12912.0	10081.2	6930.0
67.5°	18688.8	18432.7	17520.8	16714.9	16309.9	14561.4	12234.8	10612.3	11465.1	7809.7	4981.6
70°	20572.8	20311.3	19952.0	20605.0	21596.0	17633.5	12324.7	9374.6	8563.3	5190.8	2998.4
72.5°	18114.9	17992.8	18648.6	21398.8	25526.3	19497.4	11140.6	6825.4	4973.6	2755.6	1735.2
73°	16596.9	16570.1	17688.4	20842.4	25554.4	19210.4	10621.6	6344.0	4265.6	2437.8	1586.3
75°	7494.6	7710.5	10161.7	15919.7	22202.1	15829.9	7475.8	3639.3	2409.7	1684.2	1197.5
77.5°	1800.9	1876.0	3179.4	7560.3	14021.0	9433.6	3387.2	1799.6	1540.7	1189.4	874.3
80°	767.0	792.5	1224.3	2793.2	6601.5	3798.9	1560.9	1205.5	1066.1	830.0	612.8
82.5°	426.4	453.2	694.6	1267.2	2664.5	1295.4	952.1	839.4	701.3	500.2	398.3
85°	241.4	256.1	406.3	708.0	1129.1	520.3	569.9	557.8	395.6	257.5	195.8
87.5°	114.0	123.4	195.8	328.5	442.5	203.8	289.6	319.1	248.1	156.9	101.9
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°	4214.6	4214.6	4214.6	4214.6	4214.6	4214.6	4214.6	4214.6	4214.6	4214.6
2.5°	4211.9	4236.1	4264.2	4279.0	4292.4	4308.5	4324.6	4324.6	4327.2	4328.6
5°	4182.4	4232.0	4276.3	4295.1	4299.1	4299.1	4295.1	4273.6	4254.8	4262.9
7.5°	4120.7	4193.1	4230.7	4224.0	4173.0	4114.0	4064.4	4004.1	3973.2	3967.9
10°	4032.2	4115.4	4122.1	4055.0	3929.0	3802.9	3698.3	3596.4	3548.1	3536.1
12.5°	3934.3	4010.8	3967.9	3829.7	3627.3	3443.6	3310.8	3207.5	3162.0	3149.9
15°	3855.2	3907.5	3798.9	3581.7	3326.9	3132.5	3022.5	2946.1	2913.9	2904.5
17.5°	3813.7	3824.4	3625.9	3332.3	3061.4	2899.1	2830.7	2794.5	2782.5	2775.8
20°	3833.8	3758.7	3461.0	3100.3	2844.2	2730.2	2714.1	2704.7	2702.0	2698.0
22.5°	3934.3	3738.6	3309.5	2880.4	2653.7	2604.1	2617.5	2616.2	2613.5	2610.8
25°	4114.0	3756.0	3162.0	2671.2	2494.2	2483.4	2507.6	2507.6	2496.8	2496.8
27.5°	4351.4	3792.2	2997.0	2472.7	2349.3	2350.7	2369.5	2364.1	2352.0	2344.0
30°	4641.0	3815.0	2803.9	2294.4	2213.9	2208.5	2213.9	2191.1	2154.9	2152.2
32.5°	4937.4	3786.8	2580.0	2136.1	2070.4	2058.4	2054.3	2022.1	1980.6	1968.5
35°	5205.6	3683.6	2352.0	2010.1	1933.6	1906.8	1925.6	1914.9	1877.3	1867.9
37.5°	5401.3	3491.8	2146.9	1898.8	1835.8	1829.1	1841.1	1845.1	1800.9	1791.5
40°	5532.8	3231.7	1971.2	1804.9	1817.0	1791.5	1751.3	1723.1	1709.7	1705.7
42.5°	5638.7	2960.8	1823.7	1760.7	1821.0	1747.3	1660.1	1614.5	1638.6	1649.4
45°	5760.7	2696.6	1700.3	1705.7	1800.9	1696.3	1597.1	1552.8	1562.2	1564.9
47.5°	5928.3	2374.8	1567.6	1617.2	1733.8	1661.4	1558.2	1495.2	1450.9	1430.8
50°	6160.3	1994.0	1429.5	1518.0	1668.1	1636.0	1497.8	1430.8	1349.0	1330.2
52.5°	6321.2	1638.6	1315.5	1434.8	1609.1	1585.0	1449.6	1362.4	1276.6	1260.5
55°	6234.1	1361.1	1216.2	1342.3	1531.4	1522.0	1409.3	1292.7	1225.6	1212.2
57.5°	5798.3	1185.4	1139.8	1255.1	1436.2	1468.3	1355.7	1233.7	1185.4	1176.0
60°	4966.9	1075.4	1091.5	1196.1	1358.4	1414.7	1302.1	1201.5	1169.3	1162.6
62.5°	3853.9	1001.7	1055.3	1153.2	1298.0	1377.2	1272.6	1197.5	1185.4	1177.4
65°	2761.0	942.7	1016.4	1110.3	1243.1	1342.3	1261.8	1192.1	1194.8	1188.1
67.5°	1876.0	890.4	969.5	1062.0	1189.4	1311.4	1247.1	1173.3	1206.9	1198.8
70°	1312.8	839.4	914.5	1000.3	1122.4	1268.5	1220.3	1145.2	1142.5	1110.3
72.5°	1024.5	772.4	839.4	914.5	1036.6	1208.2	1166.6	1082.1	1037.9	1004.4
73°	977.6	756.3	820.7	895.8	1017.8	1193.4	1151.9	1064.7	1015.1	984.3
75°	808.6	686.6	745.6	812.6	937.3	1123.7	1079.5	985.6	922.6	903.8
77.5°	635.6	587.3	643.7	704.0	826.0	1021.8	972.2	882.3	847.5	831.4
80°	470.7	486.8	536.4	590.0	716.1	913.2	868.9	779.1	934.6	895.8
82.5°	331.2	368.8	414.4	462.6	600.7	807.3	753.6	661.1	683.9	568.6
85°	195.8	241.4	284.3	325.9	433.1	669.1	622.2	527.0	431.8	411.7
87.5°	114.0	134.1	146.2	189.1	297.7	504.2	438.5	390.2	223.9	151.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)