

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: McGRAW-EDISON

Report Number: P299120

Luminaire Tested: **GLNA-AF-05-LED-E1-T3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299120
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: MCGRAW-EDISON
Catalog Number: GLNA-AF-05-LED-E1-T3-7030
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28683.9 lumens
Efficiency: N/A
Efficacy: 102.8 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

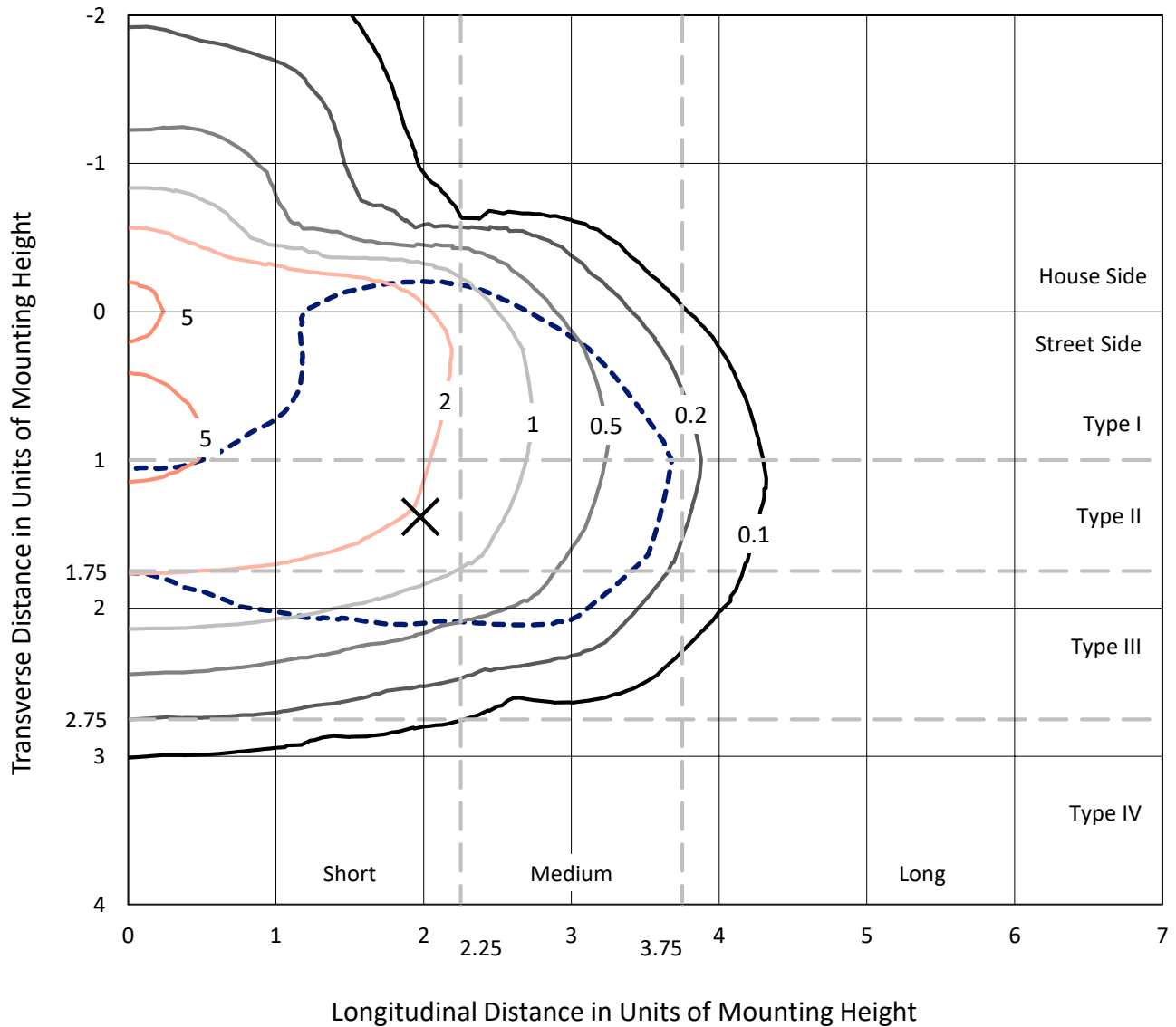
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

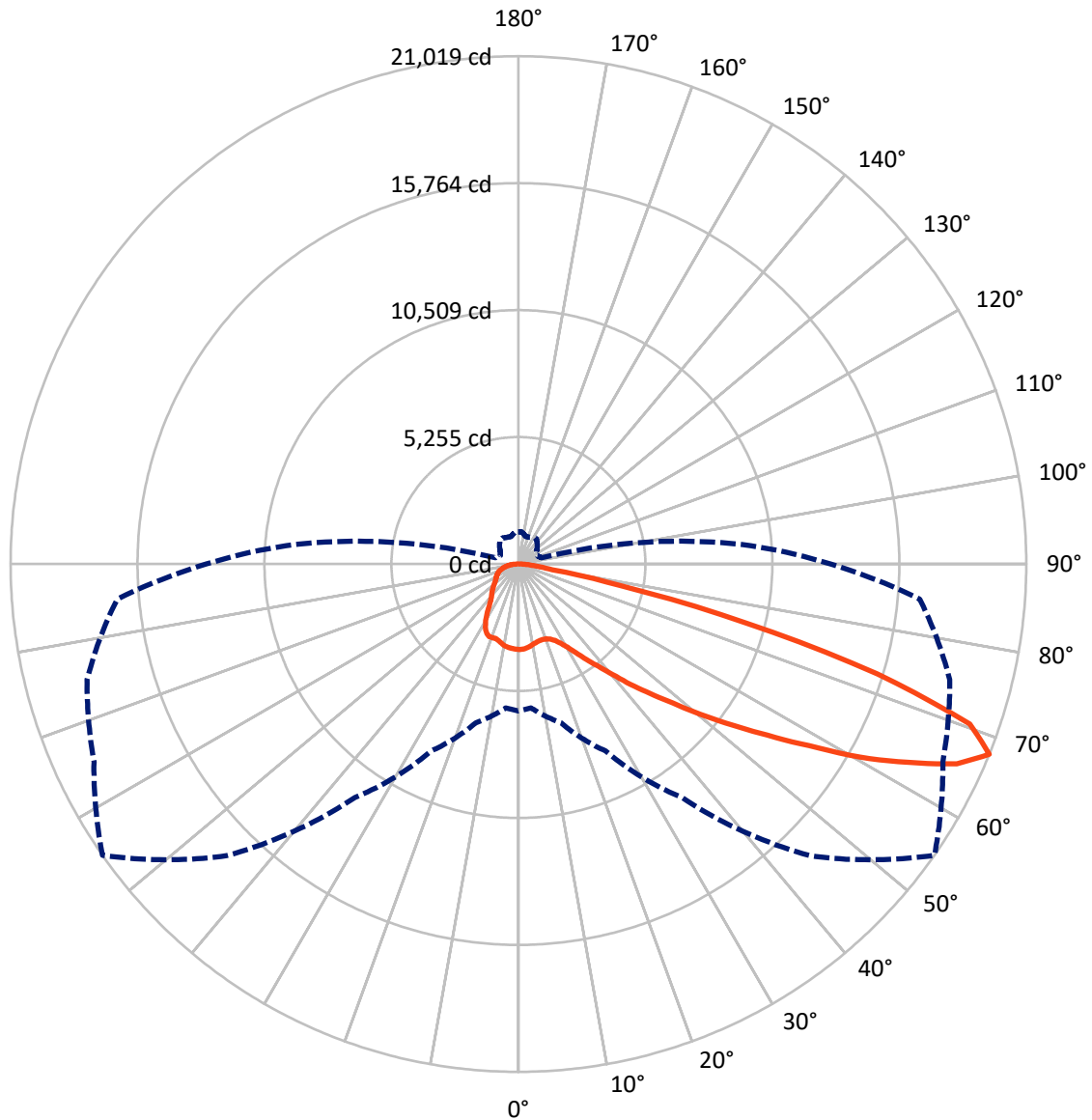
✕ Max cd
 - - - 1/2 Max cd



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	6196.3	0.0	6196.3
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	22487.6	0.0	22487.6
	% Fixture	78.4	0.0	78.4
Total	Lumens	28683.9	0.0	28683.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.1	1.2
10°-20°	935.0	3.3
20°-30°	1566.3	5.5
30°-40°	2575.6	9.0
40°-50°	4335.6	15.1
50°-60°	6823.9	23.8
60°-70°	8143.6	28.4
70°-80°	3497.0	12.2
80°-90°	476.8	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°	28683.9	100.0
0°-180°	28683.9	100.0



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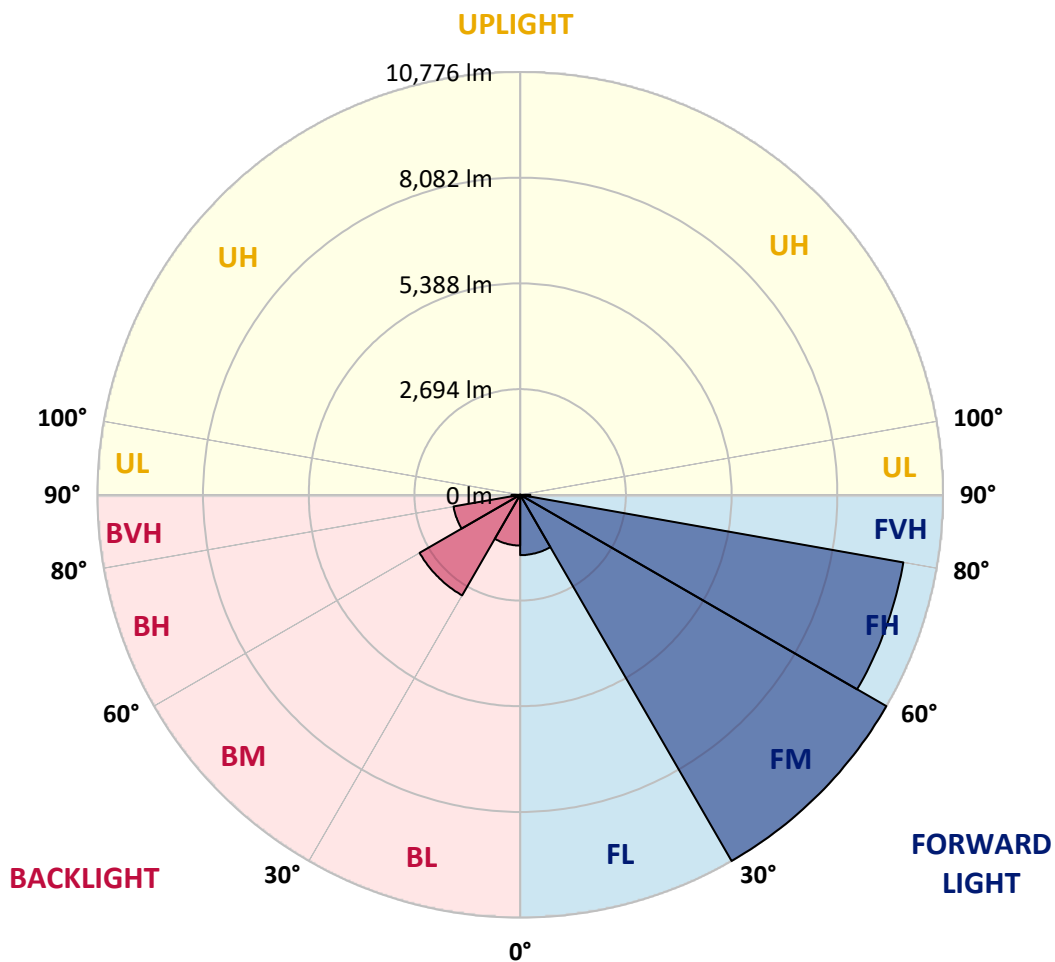
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1537.5	5.4			
FM	(30°-60°)	10775.8	37.6			
FH	(60°-80°)	9916.2	34.6			G4/12000
FVH	(80°-90°)	258.1	0.9			G3/500
BL	(0°-30°)	1293.9	4.5	B3/2500		
BM	(30°-60°)	2959.3	10.3	B3/5000		
BH	(60°-80°)	1724.4	6.0	B3/2500		G3/2500
BVH	(80°-90°)	218.7	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°	3537.0	3537.0	3537.0	3537.0	3537.0	3537.0	3537.0	3537.0	3537.0	3537.0	3537.0
2.5°	3506.6	3507.9	3510.7	3521.8	3531.5	3528.7	3530.1	3524.6	3523.2	3514.9	3523.2
5°	3462.2	3466.4	3467.8	3485.8	3496.9	3499.6	3495.5	3488.5	3480.2	3471.9	3476.1
7.5°	3361.1	3372.2	3373.6	3398.5	3416.5	3440.1	3441.4	3442.8	3438.7	3433.1	3441.4
10°	3297.4	3300.1	3298.7	3316.8	3330.6	3356.9	3372.2	3398.5	3409.6	3412.4	3417.9
12.5°	3293.2	3290.4	3286.3	3286.3	3282.1	3293.2	3320.9	3358.3	3384.6	3393.0	3399.9
15°	3337.5	3336.2	3322.3	3301.5	3275.2	3266.9	3290.4	3332.0	3366.6	3384.6	3391.6
17.5°	3437.3	3429.0	3406.8	3359.7	3302.9	3280.7	3283.5	3318.1	3358.3	3381.9	3388.8
20°	3620.2	3620.2	3573.1	3484.4	3383.3	3330.6	3305.7	3326.5	3365.2	3397.1	3406.8
22.5°	3936.0	3938.8	3859.8	3714.4	3544.0	3431.7	3369.4	3365.2	3411.0	3447.0	3458.1
25°	4383.5	4372.5	4261.6	4053.8	3794.7	3609.1	3501.0	3476.1	3514.9	3555.1	3568.9
27.5°	4904.5	4864.3	4732.7	4481.9	4146.6	3875.1	3708.8	3668.7	3706.1	3751.8	3765.6
30°	5419.9	5378.3	5221.7	4947.4	4574.7	4231.1	3992.9	3927.7	3980.4	4045.5	4053.8
32.5°	5935.2	5935.2	5760.7	5440.6	5034.7	4656.5	4371.1	4293.5	4380.8	4459.7	4477.8
35°	6551.8	6554.5	6385.5	6000.4	5563.9	5163.6	4849.1	4792.3	4923.9	4979.3	5022.2
37.5°	7309.6	7324.8	7107.3	6641.8	6163.8	5742.7	5368.6	5291.0	5422.6	5573.6	5712.2
40°	8128.4	8147.8	7908.1	7334.5	6856.6	6416.0	6011.4	5871.5	6090.4	6378.6	6557.3
42.5°	8909.8	9009.5	8778.2	8188.0	7674.0	7218.2	6808.1	6604.4	6878.7	7313.8	7468.9
45°	10038.9	10111.0	9707.8	9173.0	8689.5	8179.7	7636.6	7421.8	7805.6	8354.2	8386.1
47.5°	10791.2	10737.2	10532.1	10199.6	9893.5	9416.9	8599.5	8363.9	8873.8	9519.4	9340.7
50°	11191.6	11208.2	11180.5	11199.9	11211.0	10911.8	9779.9	9457.0	10065.3	10845.3	10433.8
52.5°	11565.7	11454.9	11546.3	12000.7	12549.4	12438.5	11064.2	10727.5	11342.6	12316.6	11589.2
55°	11557.4	11388.4	11686.2	12488.4	13678.5	13806.0	12506.4	12118.5	12693.4	13894.6	12814.0
57.5°	11148.7	11157.0	11615.6	12665.7	14465.4	15091.6	14180.0	13598.1	14126.0	15493.4	13932.0
60°	10586.2	10662.4	11323.2	12636.6	15095.8	16146.0	16233.3	15192.8	15529.4	16946.8	14857.5
62.5°	9678.7	9759.1	10670.7	12334.6	15000.2	17161.5	18089.8	17002.2	16996.6	17827.9	15129.1
65°	8247.6	8224.0	9181.3	11205.5	14198.0	17912.4	19933.8	18566.3	18102.2	17841.8	14583.2
67.5°	6082.1	5976.8	6798.4	8534.3	11801.2	17071.4	21018.6	19381.0	18479.1	16668.3	12915.1
70°	3156.0	3050.7	3715.8	4983.4	7761.3	13323.8	19817.4	18959.8	17646.4	13972.2	10117.9
72.5°	1349.4	1331.4	1601.6	2186.2	3754.6	7685.1	15539.1	16410.6	15141.5	10410.2	6956.3
75°	907.5	901.9	1003.1	1191.5	1688.9	3118.6	9724.4	11648.8	11078.0	6454.8	3912.5
77.5°	712.1	705.2	764.8	856.2	1094.5	1230.3	4315.7	6253.9	5788.4	2809.7	1712.4
80°	556.9	551.4	588.8	638.7	786.9	775.8	1420.1	2488.3	1925.8	1076.5	832.7
82.5°	439.2	439.2	469.7	471.1	558.3	529.2	741.2	1095.9	961.5	627.6	509.8
85°	401.8	401.8	433.6	351.9	364.4	333.9	460.0	649.8	609.6	257.7	221.7
87.5°	202.3	196.7	364.4	311.7	198.1	177.3	224.4	314.5	338.0	142.7	110.8
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°	3537.0	3537.0	3537.0	3537.0	3537.0	3537.0	3537.0	3537.0	3537.0	3537.0
2.5°	3520.4	3519.0	3521.8	3523.2	3534.3	3549.5	3556.4	3566.1	3571.7	3568.9
5°	3478.9	3481.6	3492.7	3501.0	3520.4	3545.4	3559.2	3570.3	3580.0	3575.8
7.5°	3444.2	3451.1	3467.8	3474.7	3485.8	3492.7	3491.3	3495.5	3503.8	3494.1
10°	3424.8	3433.1	3445.6	3435.9	3409.6	3372.2	3337.5	3319.5	3325.1	3318.1
12.5°	3405.4	3416.5	3406.8	3361.1	3287.7	3239.2	3212.8	3215.6	3228.1	3230.9
15°	3394.3	3398.5	3356.9	3271.0	3196.2	3189.3	3203.1	3200.4	3201.8	3201.8
17.5°	3394.3	3383.3	3305.7	3219.8	3187.9	3175.4	3132.5	3078.5	3054.9	3046.6
20°	3412.4	3383.3	3289.0	3232.2	3163.0	3056.3	2942.7	2842.9	2798.6	2786.1
22.5°	3466.4	3416.5	3336.2	3237.8	3041.1	2862.3	2682.2	2563.1	2482.7	2468.9
25°	3575.8	3520.4	3429.0	3164.4	2847.1	2592.2	2387.1	2254.1	2173.8	2162.7
27.5°	3767.0	3731.0	3478.9	3002.3	2589.4	2316.5	2126.7	2024.1	1964.6	1960.4
30°	4055.2	4037.2	3453.9	2762.6	2272.1	2049.1	1957.6	1898.1	1853.7	1852.3
32.5°	4515.2	4369.7	3372.2	2470.2	1982.6	1859.3	1821.9	1785.8	1751.2	1751.2
35°	5106.7	4638.5	3217.0	2157.1	1806.6	1754.0	1706.9	1650.1	1604.3	1601.6
37.5°	5802.2	4804.7	2938.5	1905.0	1723.5	1683.3	1614.0	1529.5	1449.2	1435.3
40°	6504.7	4854.6	2546.4	1749.8	1670.8	1612.7	1528.1	1428.4	1350.8	1346.7
42.5°	7148.9	4759.0	2130.8	1643.1	1618.2	1540.6	1451.9	1363.3	1302.3	1300.9
45°	7689.2	4511.0	1781.7	1542.0	1562.8	1475.5	1396.5	1324.5	1277.4	1267.7
47.5°	8197.7	4160.5	1536.5	1435.3	1507.4	1439.5	1373.0	1305.1	1259.4	1252.4
50°	8787.9	3782.3	1364.7	1331.4	1458.9	1427.0	1392.4	1321.7	1245.5	1237.2
52.5°	9502.8	3455.3	1230.3	1240.0	1421.5	1443.6	1442.2	1368.8	1235.8	1224.7
55°	10300.8	3092.3	1129.1	1165.2	1406.2	1474.1	1454.7	1413.2	1244.1	1227.5
57.5°	11086.3	2668.4	1058.5	1108.4	1384.1	1471.3	1395.1	1335.6	1263.5	1240.0
60°	11675.1	2098.9	1004.4	1058.5	1335.6	1425.6	1330.0	1251.1	1259.4	1241.4
62.5°	11713.9	1622.4	939.3	1015.5	1262.1	1379.9	1287.1	1213.6	1277.4	1260.8
65°	11025.4	1226.1	877.0	964.3	1183.2	1350.8	1245.5	1192.9	1314.8	1296.8
67.5°	9282.5	986.4	824.3	911.6	1104.2	1289.8	1208.1	1173.5	1348.0	1316.2
70°	6701.4	841.0	773.1	847.9	1033.5	1220.6	1174.9	1138.8	1258.0	1208.1
72.5°	4125.9	728.7	714.9	763.4	979.5	1148.5	1125.0	1073.7	1133.3	1093.1
75°	2060.2	631.8	649.8	680.3	903.3	1066.8	1041.9	990.6	998.9	990.6
77.5°	986.4	540.3	573.6	597.1	804.9	974.0	947.6	895.0	885.3	886.7
80°	624.8	451.7	483.5	500.1	719.0	865.9	839.6	786.9	897.8	832.7
82.5°	390.7	367.1	375.5	405.9	626.2	753.7	719.0	671.9	809.1	640.1
85°	216.1	256.3	267.4	293.7	482.1	630.4	595.7	536.2	480.7	472.4
87.5°	128.8	152.4	156.6	176.0	324.2	455.8	403.2	382.4	317.3	315.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)