

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: P529038

Luminaire Tested: **GALN-SA4A-830-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529038
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4A-830-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12185 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 121
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



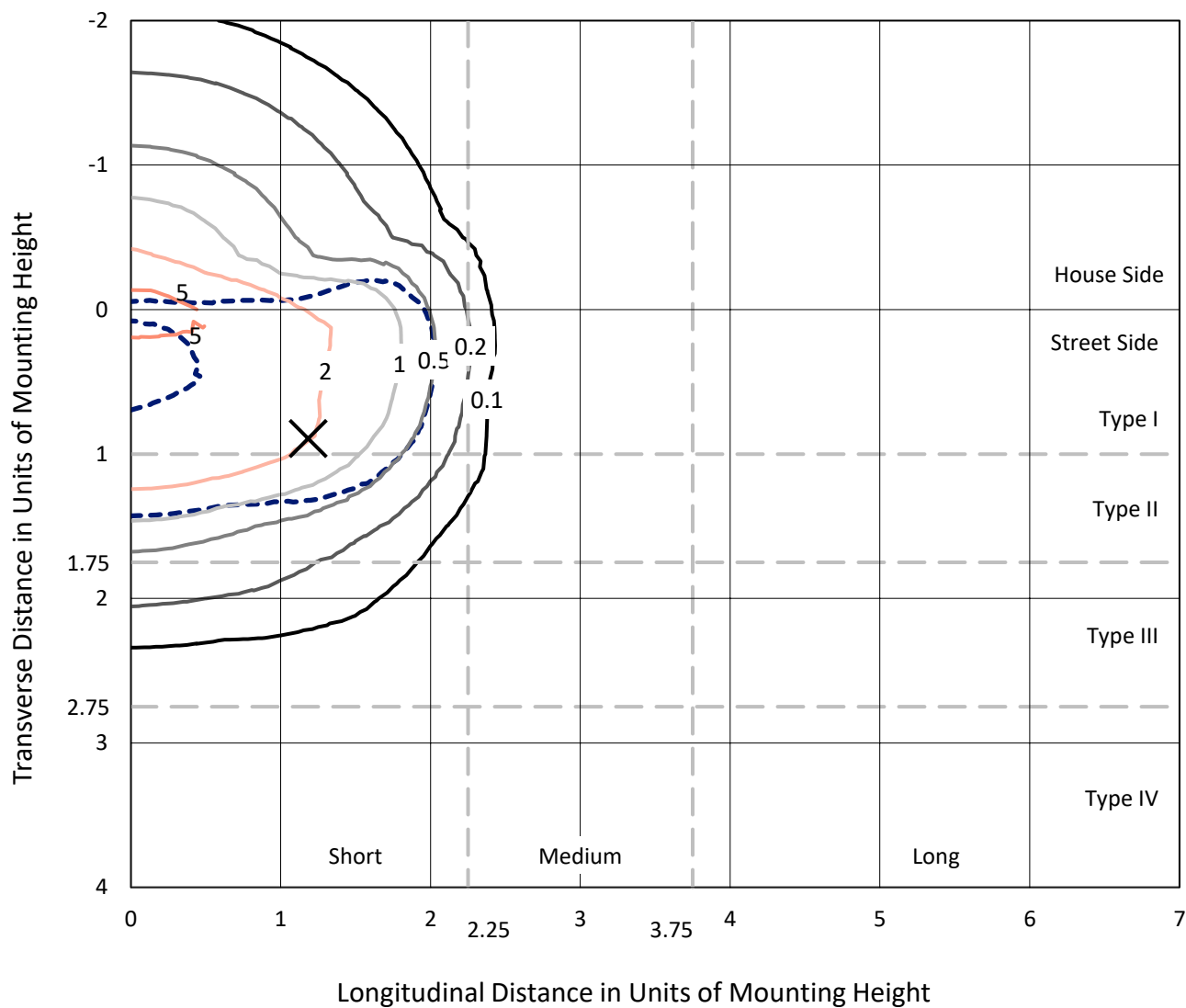
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

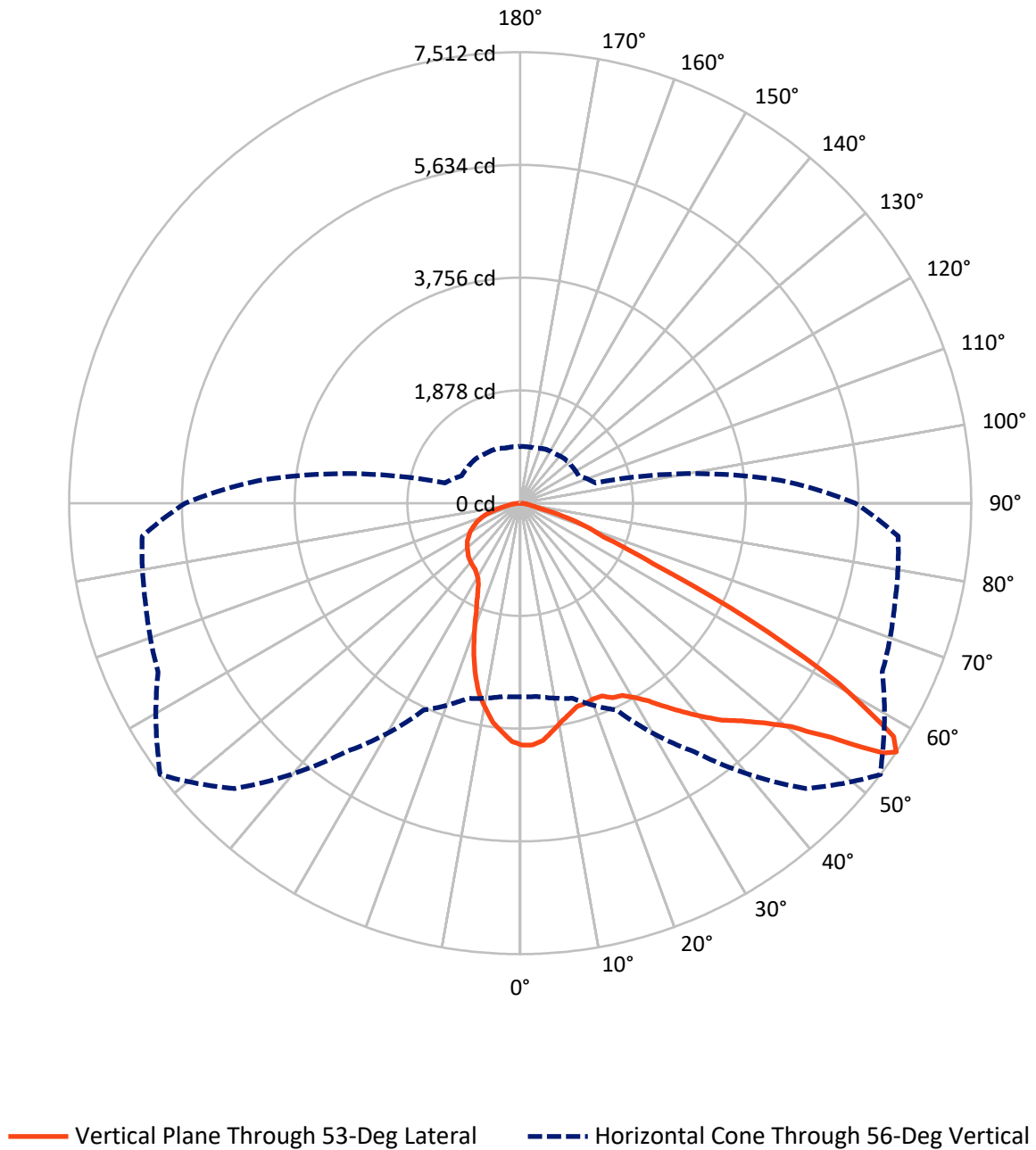


Based on 25 foot mounting height. Maximum calculated value = 6.5 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3555.8	0.0	3555.8
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	8629.1	0.0	8629.1
	% Fixture	70.8	0.0	70.8
Total	Lumens	12185.0	0.0	12185.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.9	2.9
10°-20°	891.3	7.3
20°-30°	1314.4	10.8
30°-40°	1878.0	15.4
40°-50°	2584.8	21.2
50°-60°	3054.5	25.1
60°-70°	1627.8	13.4
70°-80°	413.0	3.4
80°-90°	64.4	0.5
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°	12185.0	100.0
0°-180°	12185.0	100.0

Coefficient of Utilization



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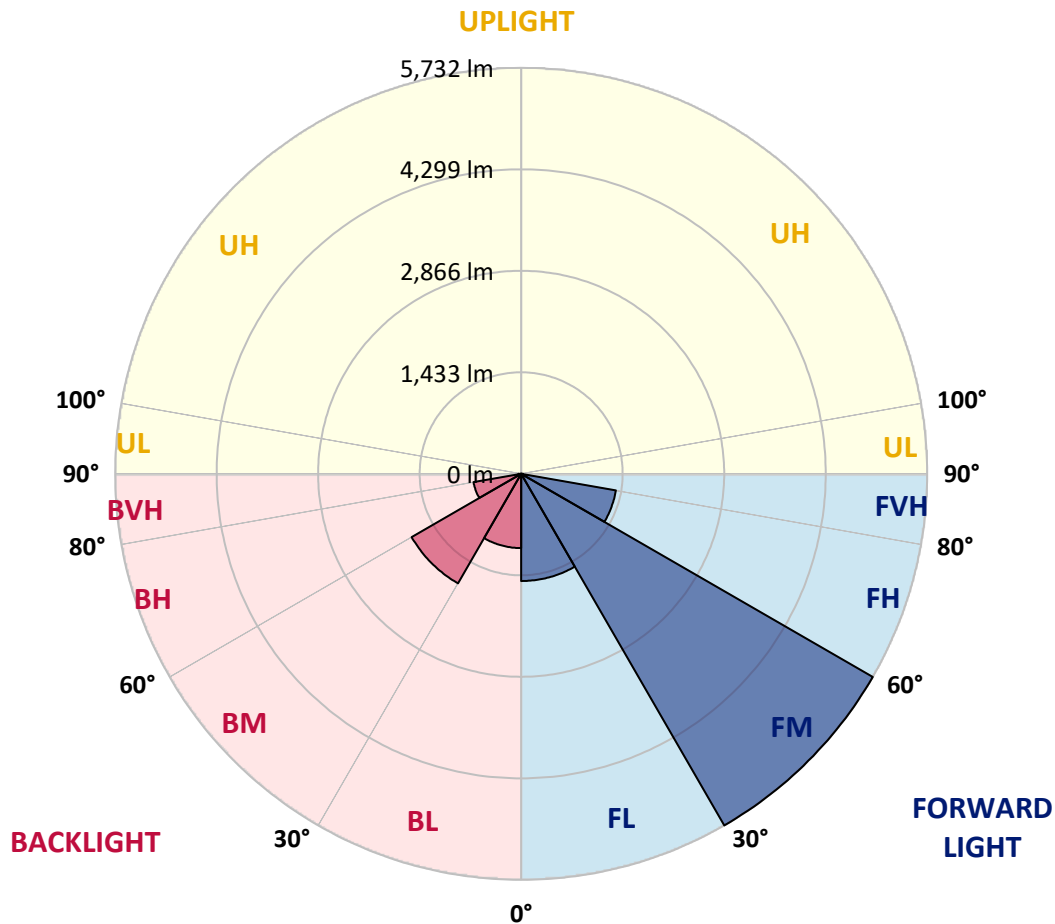
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1513.8	12.4			
FM	(30°-60°)	5731.6	47.0			
FH	(60°-80°)	1357.9	11.1			G1/1800
FVH	(80°-90°)	25.9	0.2			G1/100
BL	(0°-30°)	1048.8	8.6	B3/2500		
BM	(30°-60°)	1785.6	14.7	B2/2500		
BH	(60°-80°)	683.0	5.6	B2/1000		G2/1000
BVH	(80°-90°)	38.5	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	4031.3	4031.3	4031.3	4031.3	4031.3	4031.3	4031.3	4031.3	4031.3	4031.3	4031.3
2.5°	3981.3	3946.9	3967.2	3959.4	4023.5	4042.2	4032.8	4040.7	4076.6	4059.4	4023.5
5°	3720.2	3768.7	3778.1	3801.5	3839.0	3912.5	3970.3	3985.9	4003.1	4082.9	4075.0
7.5°	3482.6	3515.4	3498.3	3567.0	3648.3	3767.1	3837.5	3850.0	4007.8	4051.6	4084.4
10°	3332.6	3299.7	3377.9	3396.7	3488.9	3624.9	3709.3	3760.9	3904.7	4078.2	4098.5
12.5°	3193.4	3182.5	3229.4	3282.5	3385.7	3526.4	3612.4	3632.7	3854.6	4037.5	4132.9
15°	3090.3	3077.8	3124.7	3163.7	3284.1	3409.2	3518.6	3576.4	3799.9	4014.1	4103.2
17.5°	3009.0	3007.4	3034.0	3104.3	3227.8	3332.6	3509.2	3512.3	3771.8	4050.0	4128.2
20°	3004.3	3002.7	3007.4	3085.6	3198.1	3326.3	3479.5	3507.6	3771.8	4025.0	4129.8
22.5°	3043.4	3018.4	3046.5	3096.5	3177.8	3337.3	3490.4	3553.0	3862.5	4148.5	4200.1
25°	3105.9	3112.2	3127.8	3145.0	3191.9	3362.3	3587.4	3638.9	3968.8	4254.8	4297.0
27.5°	3220.0	3216.9	3223.1	3232.5	3273.2	3385.7	3626.4	3759.3	4190.7	4443.9	4401.7
30°	3387.3	3376.3	3401.3	3434.2	3396.7	3460.7	3756.2	3856.2	4397.0	4634.6	4519.0
32.5°	3538.9	3579.5	3626.4	3640.5	3595.2	3607.7	3928.1	4029.7	4569.0	4869.1	4662.8
35°	3728.0	3760.9	3823.4	3867.2	3859.3	3821.8	4162.6	4297.0	4817.5	5041.1	4814.4
37.5°	3912.5	3951.6	4054.7	4184.5	4112.6	4095.4	4412.7	4523.7	4894.1	5133.3	4925.4
40°	4209.5	4207.9	4386.1	4453.3	4517.4	4487.7	4672.2	4709.7	4934.8	5113.0	4928.5
42.5°	4558.0	4536.2	4717.5	4822.2	4905.1	4908.2	4942.6	4930.1	4953.5	5009.8	4895.7
45°	4889.4	4936.3	5119.2	5306.8	5389.6	5399.0	5170.8	5147.3	4986.3	4980.1	4833.2
47.5°	5294.3	5305.2	5455.3	5702.3	5894.5	5828.9	5466.2	5414.6	5130.1	5178.6	4937.9
50°	5317.7	5399.0	5533.4	5824.2	6415.0	6397.8	5849.2	5752.3	5361.5	5460.0	5230.2
52.5°	4826.9	4808.1	4967.6	5442.8	6376.0	6963.7	6483.8	6252.5	5858.6	5783.5	5703.8
55°	3678.0	3721.8	3862.5	4342.3	5536.6	6971.5	7348.2	7159.1	6390.0	6261.8	6169.6
56°	3226.3	3232.5	3365.4	3803.1	5052.0	6723.0	7512.3	7359.2	6654.2	6458.8	6318.1
57.5°	2674.5	2638.5	2707.3	2946.5	4264.2	6197.8	7332.6	7482.6	6963.7	6671.4	6476.0
60°	2105.5	2097.7	2069.6	2113.3	2694.8	4669.0	6104.0	6441.6	6932.4	6471.3	6202.4
62.5°	1719.4	1680.4	1736.6	1799.1	1872.6	2896.5	4289.2	4487.7	5503.7	5166.1	4659.7
65°	1333.3	1314.6	1384.9	1588.1	1631.9	1839.8	2443.2	2596.3	3249.7	3191.9	2810.5
67.5°	917.5	920.7	981.6	1291.1	1513.1	1494.3	1495.9	1575.6	1696.0	1259.9	1097.3
70°	581.5	579.9	612.7	831.6	1217.7	1230.2	1167.6	1144.2	1084.8	656.5	695.6
72.5°	373.6	362.6	379.8	459.6	629.9	728.4	750.3	764.4	628.4	515.8	559.6
75°	211.0	200.1	193.8	214.1	248.5	287.6	315.7	325.1	364.2	390.8	414.2
77.5°	64.1	57.8	70.3	93.8	123.5	165.7	201.6	207.9	245.4	276.7	300.1
80°	28.1	31.3	43.8	62.5	87.5	117.2	142.2	151.6	176.6	200.1	206.3
82.5°	17.2	18.8	29.7	42.2	61.0	82.8	101.6	104.7	129.7	148.5	153.2
85°	6.3	7.8	15.6	25.0	39.1	53.1	53.1	57.8	53.1	53.1	57.8
87.5°	0.0	0.0	1.6	3.1	3.1	4.7	6.3	6.3	7.8	9.4	10.9
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4031.3	4031.3	4031.3	4031.3	4031.3	4031.3	4031.3	4031.3	4031.3	4031.3	4031.3
2.5°	4042.2	4034.4	4021.9	3976.6	3971.9	3957.8	3879.7	3867.2	3879.7	3842.1	3845.3
5°	4034.4	4057.9	3964.1	3918.7	3834.3	3773.4	3703.0	3667.1	3603.0	3562.3	3607.7
7.5°	4068.8	4059.4	3942.2	3843.7	3717.1	3562.3	3438.9	3368.5	3256.0	3224.7	3248.2
10°	4056.3	4006.3	3868.7	3739.0	3499.8	3363.8	3163.7	2969.9	2863.6	2808.9	2801.1
12.5°	4039.1	4025.0	3795.2	3571.7	3320.1	3034.0	2752.6	2569.8	2396.3	2321.2	2332.2
15°	4059.4	3940.6	3657.7	3374.8	3040.3	2665.1	2361.9	2125.8	2005.5	1957.0	1957.0
17.5°	4050.0	3900.0	3592.0	3154.4	2730.8	2286.8	1953.9	1811.7	1761.6	1761.6	1775.7
20°	4054.7	3926.5	3459.2	2934.0	2365.0	1925.8	1683.5	1631.9	1653.8	1661.6	1669.4
22.5°	4081.3	3839.0	3329.4	2691.7	2025.8	1647.5	1528.7	1530.3	1569.4	1611.6	1603.8
25°	4114.1	3804.6	3171.6	2451.0	1766.3	1511.5	1474.0	1469.3	1499.0	1520.9	1524.0
27.5°	4086.0	3745.2	3010.6	2150.8	1553.7	1420.9	1413.1	1416.2	1425.6	1469.3	1455.3
30°	4178.2	3762.4	2808.9	1899.2	1436.5	1391.2	1381.8	1377.1	1391.2	1403.7	1392.7
32.5°	4292.3	3701.5	2658.9	1656.9	1378.7	1369.3	1350.5	1344.3	1352.1	1339.6	1345.8
35°	4342.3	3690.5	2463.5	1483.4	1333.3	1325.5	1314.6	1313.0	1314.6	1303.6	1294.3
37.5°	4370.5	3742.1	2239.9	1403.7	1305.2	1313.0	1288.0	1284.9	1256.7	1263.0	1267.7
40°	4418.9	3662.4	2058.6	1327.1	1288.0	1272.4	1250.5	1245.8	1227.0	1216.1	1227.0
42.5°	4348.6	3638.9	1880.4	1294.3	1263.0	1245.8	1230.2	1203.6	1197.3	1188.0	1181.7
45°	4292.3	3504.5	1721.0	1253.6	1233.3	1223.9	1194.2	1166.1	1142.6	1152.0	1137.9
47.5°	4334.5	3457.6	1563.1	1219.2	1192.7	1181.7	1152.0	1130.1	1106.7	1095.7	1092.6
50°	4503.3	3545.1	1430.3	1194.2	1158.3	1152.0	1112.9	1087.9	1066.0	1058.2	1061.4
52.5°	4906.6	3784.3	1339.6	1142.6	1125.4	1097.3	1075.4	1044.2	1030.1	1005.1	1020.7
55°	5417.8	4173.5	1316.1	1094.2	1084.8	1059.8	1030.1	1006.6	980.1	959.8	955.1
56°	5581.9	4359.5	1297.4	1075.4	1059.8	1045.7	1006.6	992.6	950.4	945.7	942.6
57.5°	5714.8	4523.7	1300.5	1039.5	1023.8	1011.3	987.9	953.5	925.4	908.2	916.0
60°	5414.6	4234.5	1241.1	984.8	981.6	958.2	925.4	909.7	875.3	855.0	850.3
62.5°	4025.0	2874.6	1006.6	914.4	912.9	887.9	850.3	833.1	826.9	798.8	798.8
65°	2318.1	1802.3	870.7	856.6	844.1	819.1	781.6	767.5	751.9	742.5	734.7
67.5°	989.5	934.7	790.9	789.4	775.3	744.0	706.5	684.6	664.3	645.6	654.9
70°	717.5	728.4	714.3	706.5	689.3	650.3	617.4	590.9	559.6	547.1	556.5
72.5°	569.0	592.4	612.7	614.3	594.0	548.7	512.7	476.8	442.4	425.2	433.0
75°	431.4	447.1	467.4	472.1	442.4	411.1	376.7	339.2	312.6	292.3	295.4
77.5°	311.1	307.9	326.7	323.6	309.5	287.6	256.4	222.0	192.3	173.5	175.1
80°	212.6	217.3	228.2	226.7	209.5	195.4	171.9	143.8	121.9	106.3	103.2
82.5°	148.5	156.3	165.7	157.9	143.8	129.7	112.5	92.2	75.0	62.5	59.4
85°	53.1	61.0	70.3	75.0	79.7	76.6	64.1	51.6	37.5	31.3	29.7
87.5°	10.9	12.5	14.1	14.1	14.1	12.5	10.9	10.9	9.4	4.7	4.7
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)