

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: P530065

Luminaire Tested: **GALN-SA5B-730-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530065
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-730-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15783 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

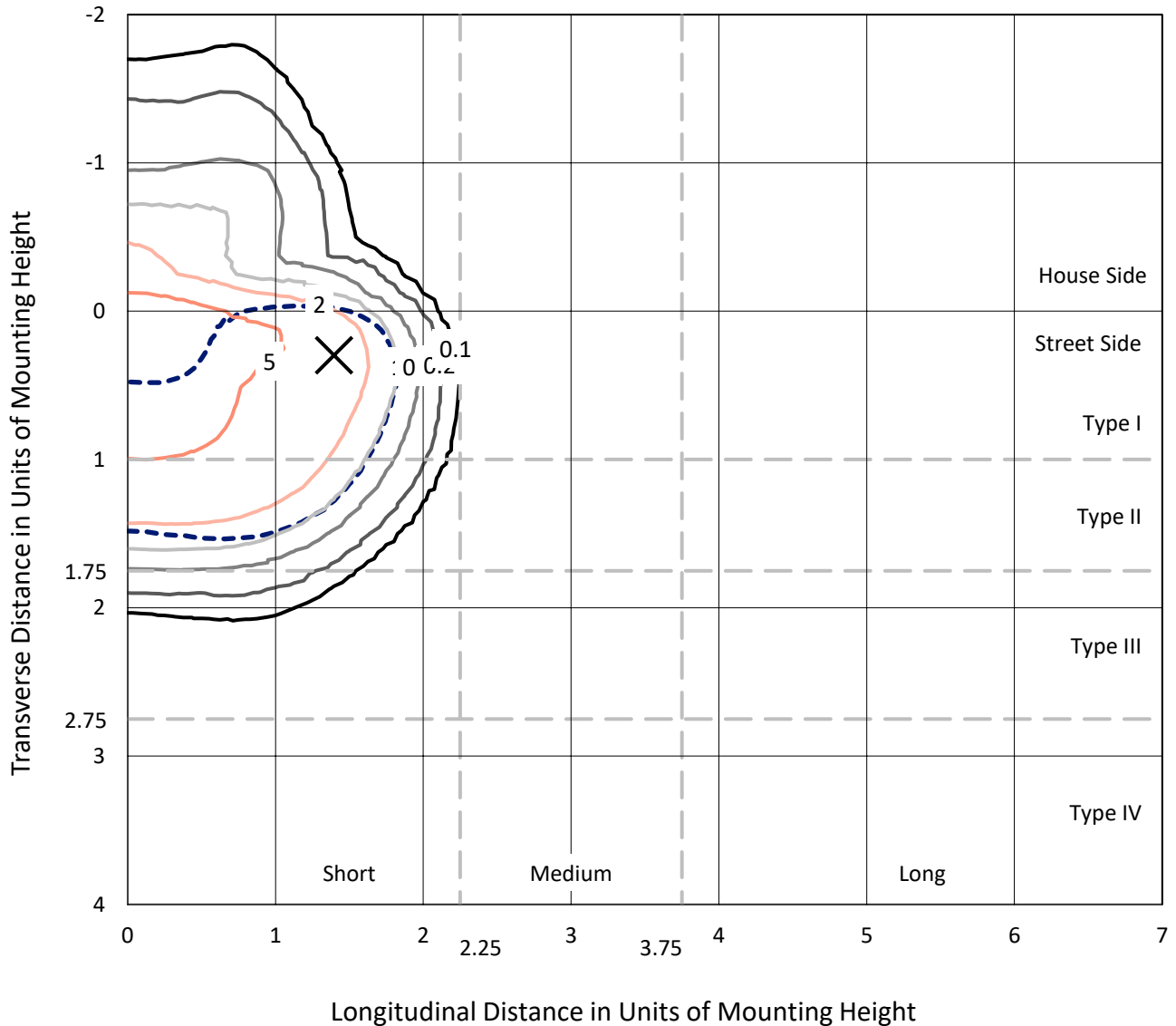
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P530065
 CATALOG NUMBER: GALN-SA5B-730-U-T3R-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

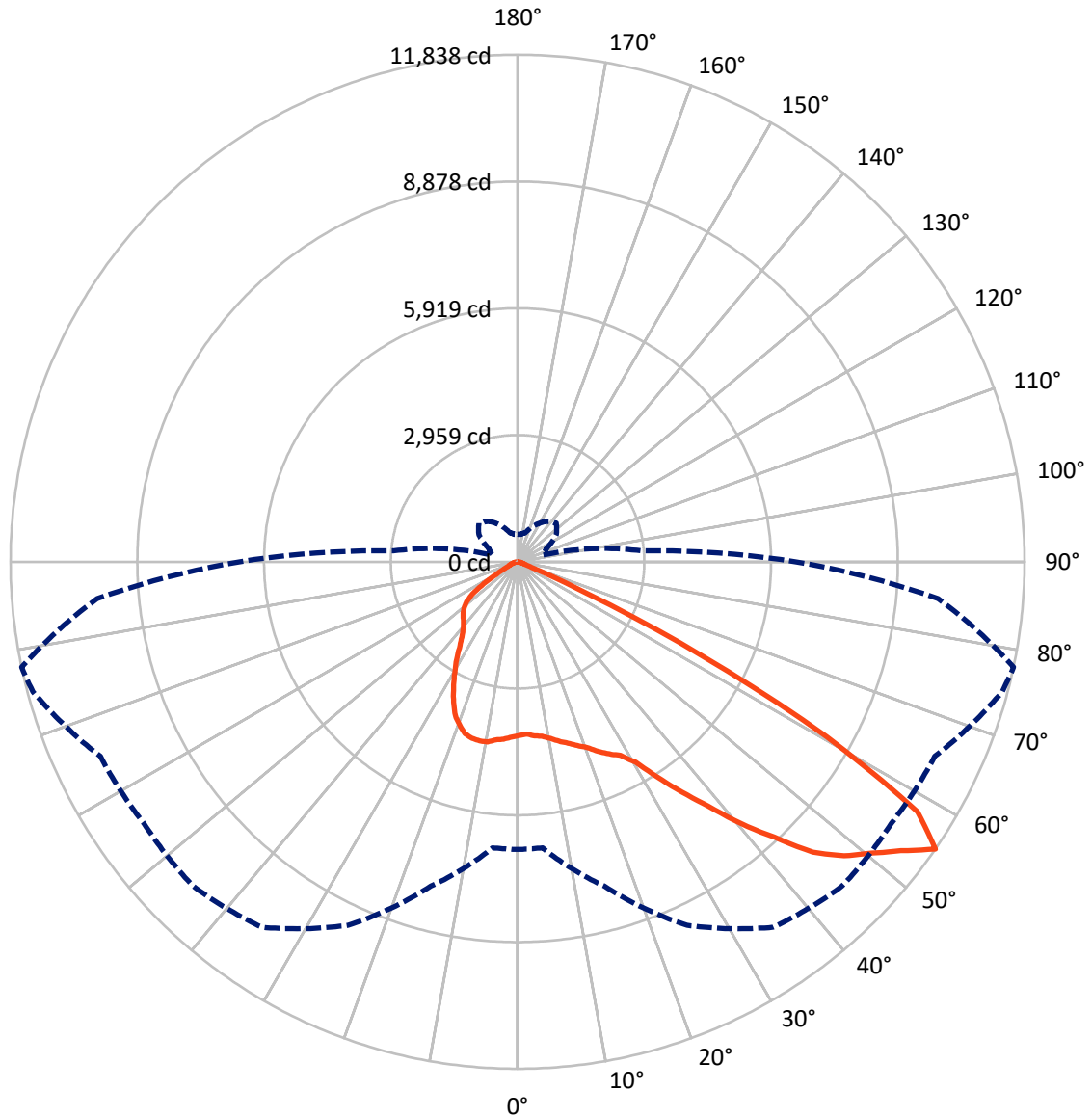
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type II - Short - N/A

REPORT NUMBER: P530065
CATALOG NUMBER: GALN-SA5B-730-U-T3R-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P530065
 CATALOG NUMBER: GALN-SA5B-730-U-T3R-GRSBK

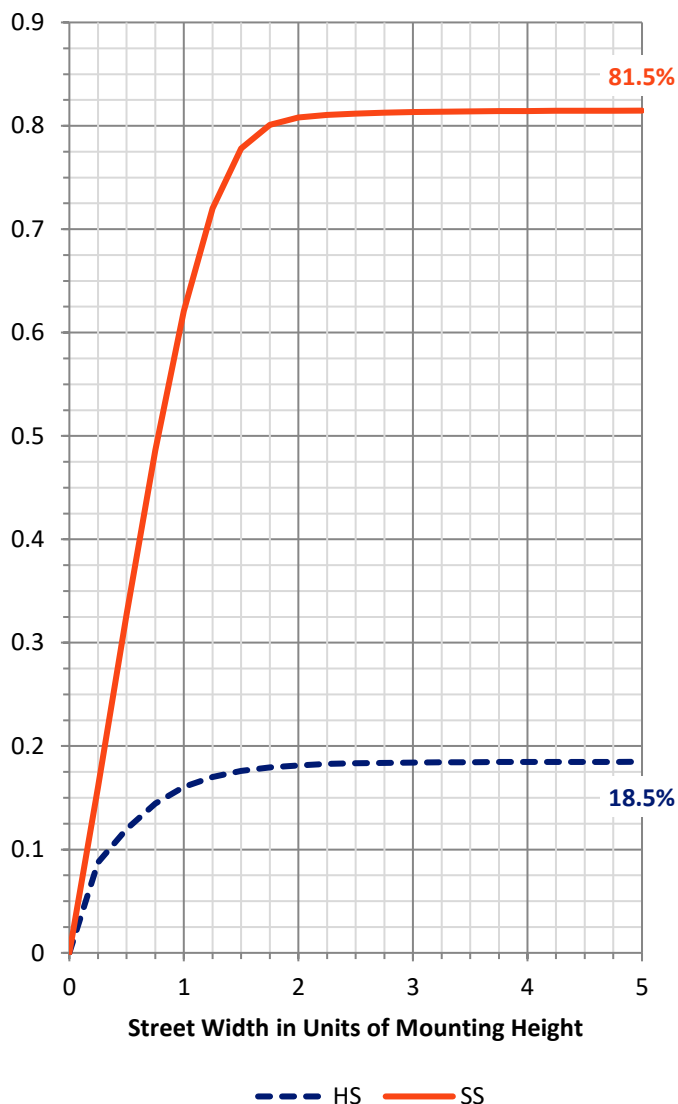
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2931.5	0.0	2931.5
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	12851.5	0.0	12851.5
	% Fixture	81.4	0.0	81.4
Total	Lumens	15783.0	0.0	15783.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.8	2.3
10°-20°	957.6	6.1
20°-30°	1678.5	10.6
30°-40°	2767.6	17.5
40°-50°	4027.2	25.5
50°-60°	4563.2	28.9
60°-70°	1304.7	8.3
70°-80°	101.3	0.6
80°-90°	21.1	0.1
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°	15783.0	100.0
0°-180°	15783.0	100.0

Coefficient of Utilization

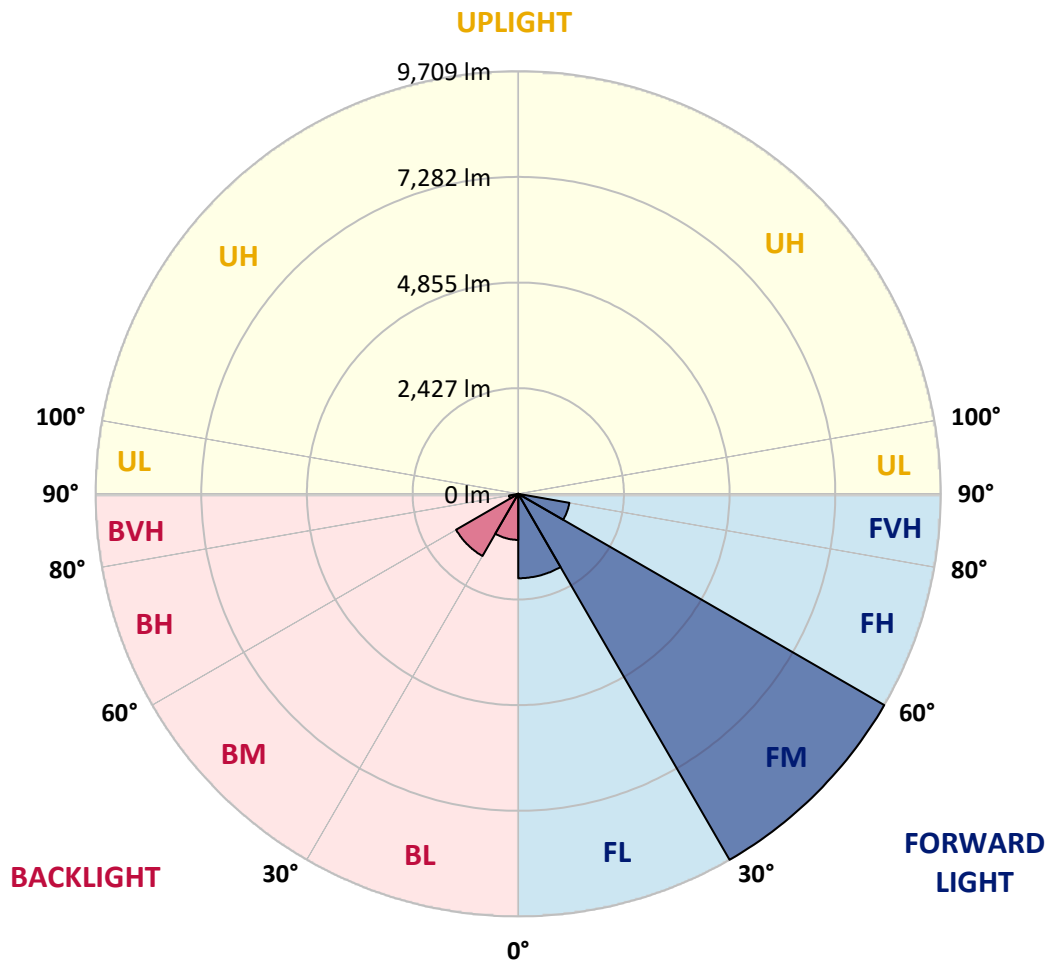


REPORT NUMBER: P530065
 CATALOG NUMBER: GALN-SA5B-730-U-T3R-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1940.2	12.3			
FM (30°-60°)	9709.0	61.5			
FH (60°-80°)	1192.0	7.6			G1/1800
FVH (80°-90°)	10.3	0.1			G1/100
BL (0°-30°)	1057.7	6.7	B3/2500		
BM (30°-60°)	1649.0	10.4	B2/2500		
BH (60°-80°)	214.0	1.4	B1/500		G1/500
BVH (80°-90°)	10.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type II Short





REPORT NUMBER: P530065

CATALOG NUMBER: GALN-SA5B-730-U-T3R-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	4057.8	4057.8	4057.8	4057.8	4057.8	4057.8	4057.8	4057.8	4057.8	4057.8	4057.8
2.5°	3815.1	3851.8	3857.5	3902.6	3899.8	3976.0	3998.6	4001.4	4052.2	4026.8	4091.7
5°	3707.9	3688.2	3679.7	3758.7	3781.3	3849.0	3905.4	3939.3	4043.7	4080.4	4148.1
7.5°	3612.0	3612.0	3617.6	3688.2	3679.7	3767.2	3826.4	3930.8	4083.2	4114.3	4196.1
10°	3518.8	3485.0	3527.3	3600.7	3662.8	3702.3	3826.4	3925.2	4103.0	4193.3	4306.1
12.5°	3470.9	3487.8	3493.4	3547.1	3614.8	3733.3	3801.0	3964.7	4244.1	4297.7	4419.0
15°	3772.8	3738.9	3657.1	3609.1	3665.6	3722.0	3891.3	4057.8	4317.4	4393.6	4529.1
17.5°	4122.7	4094.5	4026.8	3897.0	3770.0	3874.4	4007.0	4159.4	4396.4	4509.3	4709.7
20°	4579.9	4534.7	4467.0	4213.0	4103.0	3990.1	4131.2	4311.8	4526.2	4627.8	4833.8
22.5°	5124.5	5124.5	4972.1	4664.5	4435.9	4328.7	4388.0	4492.4	4670.2	4808.4	5011.6
25°	5691.7	5674.7	5536.5	5217.6	4831.0	4704.0	4771.7	4845.1	4893.1	4969.3	5104.7
27.5°	6340.7	6241.9	6067.0	5714.2	5372.8	5127.3	5200.7	5135.8	5076.5	5116.0	5310.7
30°	6780.9	6843.0	6620.1	6281.4	5959.7	5686.0	5700.1	5643.7	5372.8	5429.2	5544.9
32.5°	7238.0	7277.5	7153.4	6967.1	6645.5	6326.6	6210.9	6162.9	5959.7	5985.1	5872.3
35°	7619.0	7695.2	7585.1	7503.3	7410.2	7153.4	6834.5	6989.7	6662.4	6600.3	6306.8
37.5°	7968.9	7946.3	8076.1	7991.5	7971.7	7791.1	7441.2	7472.3	7252.2	7238.0	6899.4
40°	8282.1	8287.8	8465.5	8505.1	8426.0	8104.3	7596.4	7841.9	8019.7	8036.6	7602.1
42.5°	8541.7	8617.9	8770.3	9089.2	8970.7	8434.5	7757.3	8025.3	8685.7	8790.1	8268.0
45°	8767.5	8922.7	9111.7	9396.8	9329.0	8902.9	8158.0	8403.5	9396.8	9670.5	8894.5
47.5°	8781.6	8984.8	9190.8	9614.0	9698.7	9154.1	8572.8	9001.7	9961.1	10257.4	9351.6
50°	8725.2	8832.4	9244.4	9704.3	9896.2	9563.2	9154.1	9504.0	10508.6	10694.8	9583.0
52.5°	8056.4	8138.2	8965.0	9789.0	10251.8	10026.0	9924.4	10203.8	11067.3	11205.6	9800.3
55°	6716.0	6701.9	7839.1	9362.9	10415.4	10711.7	10649.7	10748.4	11713.5	11837.7	9853.9
57.5°	4594.0	4850.8	5832.8	7796.8	9413.7	10550.9	10615.8	10452.1	10960.1	11008.0	8589.7
60°	2477.6	2584.8	3374.9	5203.5	7167.5	8598.2	8767.5	8471.2	8431.7	8296.2	6131.9
62.5°	984.8	1038.4	1487.1	2576.3	3905.4	5226.1	5590.1	5468.7	5209.1	4853.6	3174.6
65°	468.4	502.3	739.3	1204.9	1732.6	2178.5	2542.5	2655.4	1958.4	1763.7	1046.9
67.5°	318.9	344.3	539.0	688.5	618.0	646.2	840.9	781.7	460.0	392.2	290.7
70°	242.7	259.6	431.7	468.4	276.5	194.7	217.3	203.2	189.1	191.9	189.1
72.5°	172.1	186.2	316.0	276.5	121.3	90.3	115.7	138.3	138.3	138.3	135.4
75°	104.4	118.5	183.4	107.2	48.0	48.0	73.4	93.1	98.8	101.6	95.9
77.5°	53.6	67.7	62.1	31.0	31.0	36.7	53.6	64.9	70.5	70.5	67.7
80°	11.3	11.3	11.3	16.9	31.0	39.5	53.6	59.3	67.7	67.7	62.1
82.5°	0.0	2.8	8.5	16.9	28.2	36.7	50.8	59.3	67.7	70.5	64.9
85°	0.0	2.8	5.6	11.3	19.8	22.6	19.8	16.9	16.9	16.9	16.9
87.5°	0.0	0.0	2.8	2.8	2.8	5.6	5.6	5.6	5.6	5.6	5.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P530065

CATALOG NUMBER: GALN-SA5B-730-U-T3R-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4057.8	4057.8	4057.8	4057.8	4057.8	4057.8	4057.8	4057.8	4057.8	4057.8	4057.8
2.5°	4097.3	4105.8	4091.7	4088.9	4077.6	4111.4	4029.6	4009.8	4060.6	4012.7	4024.0
5°	4150.9	4170.7	4145.3	4103.0	4040.9	3944.9	3863.1	3755.9	3705.1	3668.4	3662.8
7.5°	4190.4	4204.6	4179.2	4043.7	3857.5	3614.8	3434.2	3301.6	3197.2	3166.1	3115.3
10°	4351.3	4354.1	4227.1	3928.0	3564.0	3245.1	2968.6	2765.4	2661.0	2596.1	2567.9
12.5°	4458.5	4452.9	4196.1	3699.4	3214.1	2790.8	2474.8	2229.3	2133.3	2102.3	2082.5
15°	4594.0	4562.9	4122.7	3465.2	2762.6	2305.5	2020.4	1851.1	1842.7	1822.9	1842.7
17.5°	4701.2	4613.7	4015.5	3039.1	2330.8	1899.1	1712.9	1724.1	1746.7	1766.5	1769.3
20°	4876.2	4695.6	3770.0	2666.6	1930.1	1628.2	1625.4	1676.2	1732.6	1755.2	1777.8
22.5°	5008.8	4729.4	3507.6	2268.8	1602.8	1518.2	1566.1	1642.3	1684.6	1707.2	1741.1
25°	5056.8	4636.3	3157.6	1870.9	1444.8	1467.4	1540.7	1591.5	1645.1	1670.5	1656.4
27.5°	5104.7	4588.3	2740.0	1540.7	1360.1	1433.5	1495.6	1546.4	1563.3	1597.2	1619.7
30°	5220.4	4421.8	2364.7	1331.9	1317.8	1410.9	1456.1	1473.0	1518.2	1537.9	1537.9
32.5°	5313.5	4356.9	1966.8	1233.1	1312.2	1422.2	1427.9	1427.9	1433.5	1419.4	1413.7
35°	5505.4	4134.0	1611.3	1173.9	1309.3	1425.0	1439.1	1391.2	1261.4	1210.6	1196.5
37.5°	5742.5	3990.1	1348.8	1159.8	1329.1	1458.9	1481.5	1300.9	1131.6	1049.7	1035.6
40°	6030.3	3888.5	1176.7	1154.1	1374.2	1537.9	1470.2	1230.3	1010.2	891.7	886.1
42.5°	6366.1	3795.4	1061.0	1151.3	1430.7	1619.7	1458.9	1171.1	886.1	807.0	818.3
45°	6634.2	3744.6	982.0	1131.6	1450.4	1667.7	1467.4	1066.7	835.3	784.5	790.1
47.5°	6843.0	3637.4	917.1	1097.7	1447.6	1684.6	1391.2	1024.3	809.9	824.0	838.1
50°	6848.6	3493.4	835.3	1024.3	1405.3	1653.6	1303.7	984.8	804.2	863.5	891.7
52.5°	6772.4	3290.3	747.8	919.9	1306.5	1546.4	1224.7	967.9	778.8	773.2	807.0
55°	6501.5	2909.3	601.1	745.0	1103.3	1275.5	1154.1	936.9	702.6	637.7	643.4
57.5°	5254.3	2085.3	443.0	533.3	781.7	934.0	1041.3	922.7	632.1	541.8	544.6
60°	3253.6	1182.4	324.5	364.0	482.5	567.2	843.7	857.8	564.4	457.1	451.5
62.5°	1670.5	584.1	251.1	256.8	296.3	333.0	578.5	719.6	510.8	434.6	434.6
65°	558.7	287.8	220.1	197.5	197.5	206.0	349.9	499.5	431.7	364.0	364.0
67.5°	239.9	214.5	191.9	172.1	158.0	149.6	197.5	290.7	321.7	276.5	265.3
70°	186.2	180.6	166.5	143.9	124.2	112.9	115.7	149.6	183.4	177.8	172.1
72.5°	138.3	138.3	132.6	112.9	95.9	81.8	76.2	79.0	87.5	90.3	93.1
75°	95.9	98.8	98.8	87.5	70.5	59.3	50.8	42.3	33.9	28.2	25.4
77.5°	64.9	67.7	73.4	64.9	53.6	39.5	31.0	22.6	14.1	5.6	5.6
80°	56.4	64.9	70.5	64.9	56.4	42.3	31.0	16.9	8.5	0.0	0.0
82.5°	59.3	64.9	73.4	62.1	53.6	39.5	31.0	19.8	8.5	2.8	0.0
85°	14.1	14.1	16.9	19.8	25.4	28.2	22.6	14.1	8.5	2.8	0.0
87.5°	5.6	5.6	5.6	5.6	5.6	2.8	2.8	2.8	2.8	0.0	0.0
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)