

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: P529137

Luminaire Tested: **GALN-SA4B-735-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529137
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-735-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15642 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

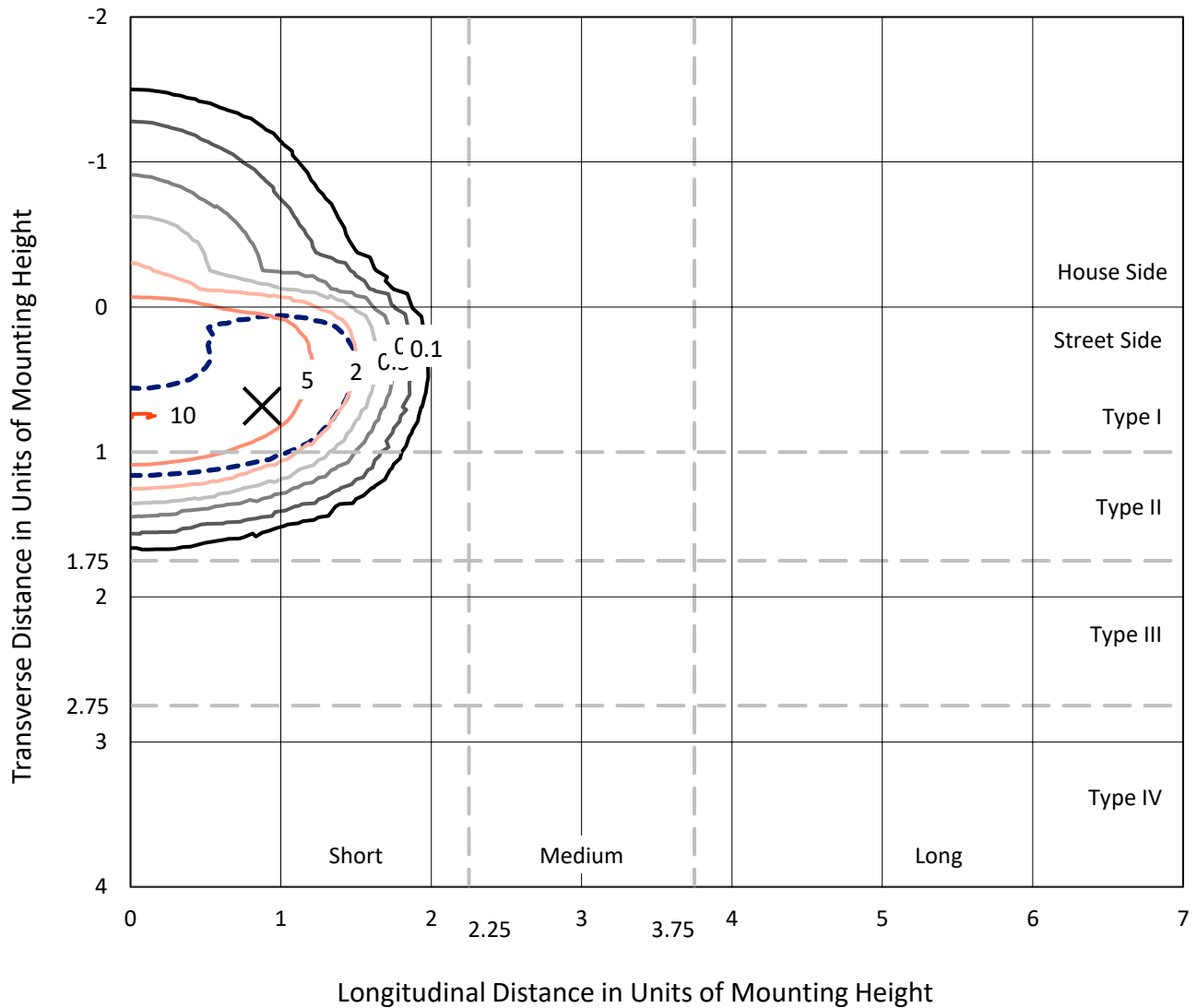
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P529137
 CATALOG NUMBER: GALN-SA4B-735-U-AFL-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

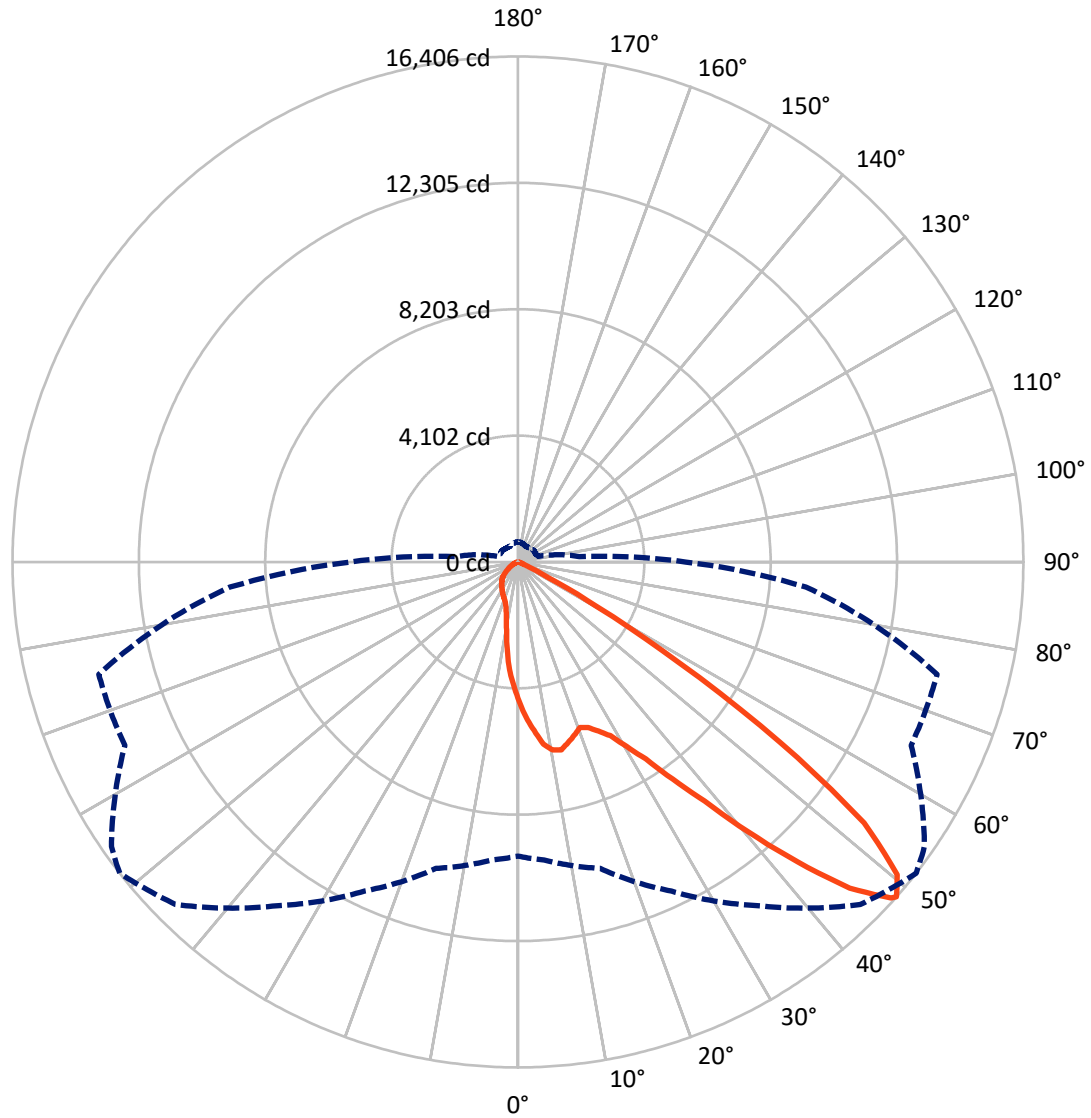
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type II - Short - N/A

REPORT NUMBER: P529137
CATALOG NUMBER: GALN-SA4B-735-U-AFL-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

REPORT NUMBER: P529137
 CATALOG NUMBER: GALN-SA4B-735-U-AFL-GRSBK

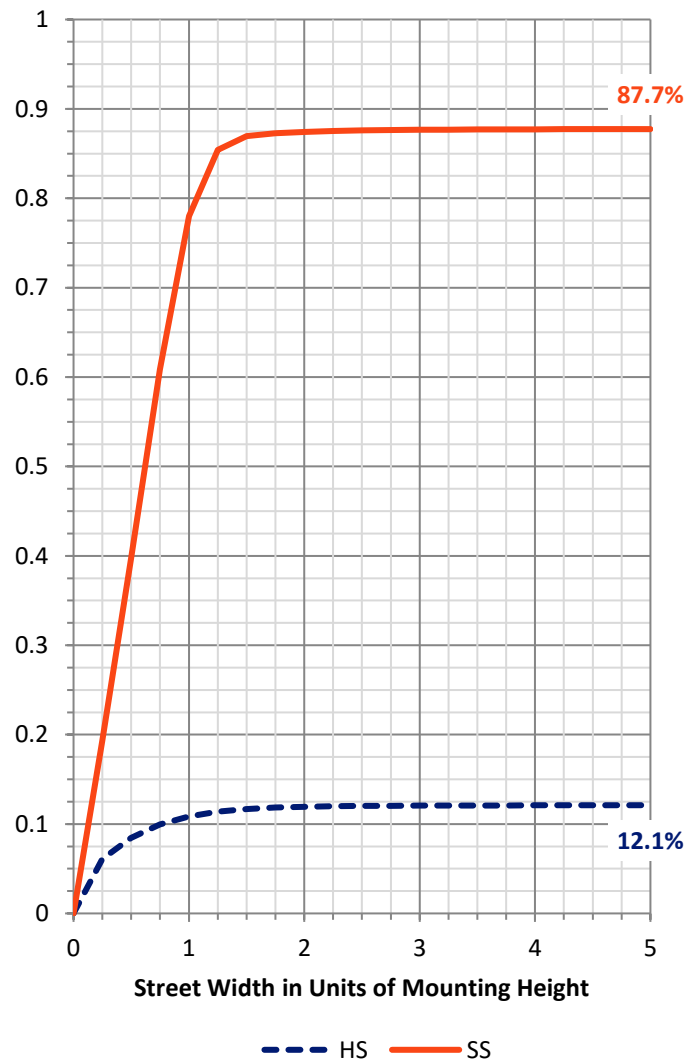
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1904.5	0.0	1904.5
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	13737.5	0.0	13737.5
	% Fixture	87.8	0.0	87.8
Total	Lumens	15642.0	0.0	15642.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.5	2.6
10°-20°	1080.5	6.9
20°-30°	1844.8	11.8
30°-40°	3397.3	21.7
40°-50°	5276.0	33.7
50°-60°	3175.2	20.3
60°-70°	367.2	2.3
70°-80°	71.1	0.5
80°-90°	16.4	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°	15642.0	100.0
0°-180°	15642.0	100.0



REPORT NUMBER: P529137

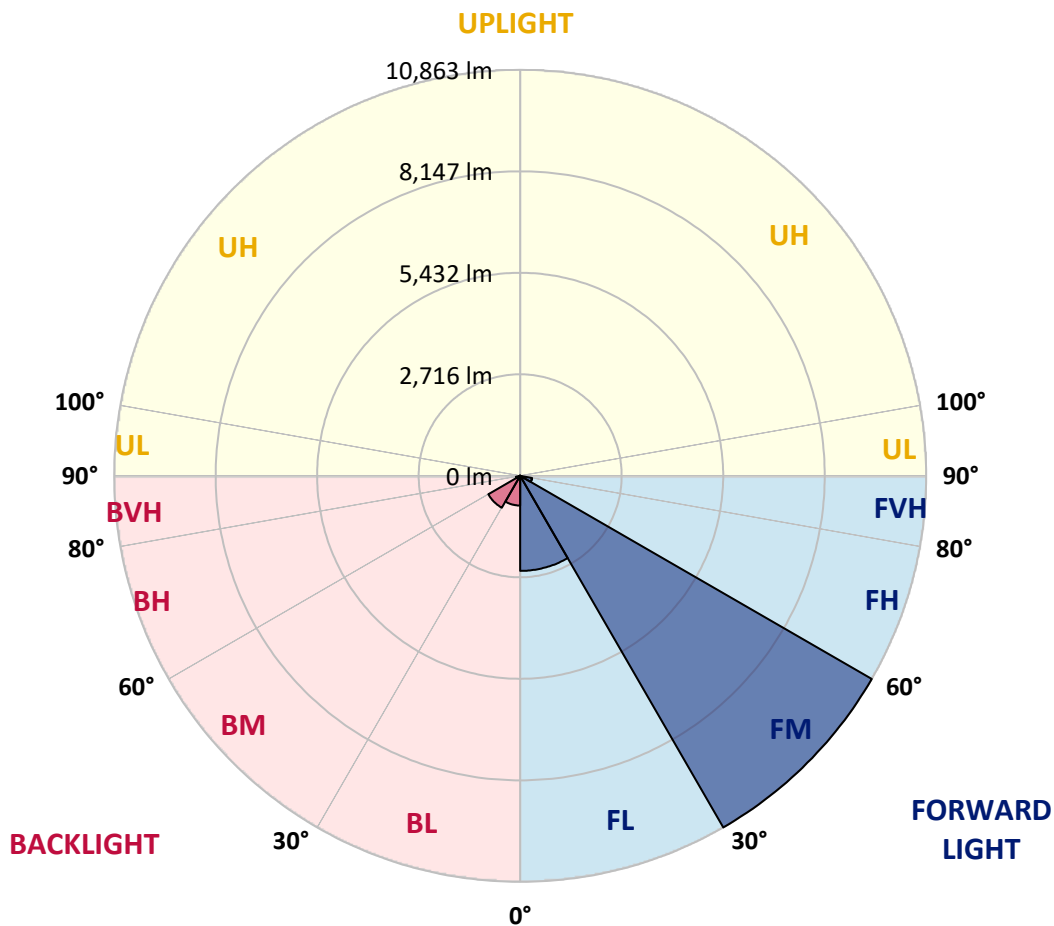
CATALOG NUMBER: GALN-SA4B-735-U-AFL-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2543.2	16.3			
FM (30°-60°)	10863.1	69.4			
FH (60°-80°)	323.4	2.1			G0/660
FVH (80°-90°)	7.8	0.1			G0/10
BL (0°-30°)	795.6	5.1	B2/1000		
BM (30°-60°)	985.4	6.3	B1/1000		
BH (60°-80°)	114.9	0.7	B1/500		G1/500
BVH (80°-90°)	8.6	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





REPORT NUMBER: P529137

CATALOG NUMBER: GALN-SA4B-735-U-AFL-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	4517.1	4517.1	4517.1	4517.1	4517.1	4517.1	4517.1	4517.1	4517.1	4517.1	4517.1
2.5°	5474.8	5349.4	5360.8	5278.7	5230.9	5153.3	5048.4	5027.9	4913.9	4758.9	4601.5
5°	5967.4	5937.7	5976.5	5857.9	5862.5	5734.8	5488.5	5493.1	5230.9	4977.8	4733.8
7.5°	5999.3	5930.9	5969.7	6074.6	6136.1	6113.3	5974.2	5853.4	5604.8	5233.1	4877.4
10°	5372.2	5502.2	5543.3	5716.6	5962.8	6222.8	6206.8	6213.6	6006.1	5520.5	5000.6
12.5°	4996.0	4909.4	5048.4	5153.3	5525.0	6028.9	6259.3	6309.4	6325.4	5798.6	5123.7
15°	4825.0	4825.0	4847.8	4877.4	5146.5	5611.7	6081.4	6227.3	6571.6	6163.5	5317.5
17.5°	4932.2	4927.6	4959.5	4897.9	4998.3	5356.3	5917.2	6083.7	6847.6	6521.5	5470.3
20°	5258.2	5274.2	5253.7	5075.8	5082.6	5351.7	5734.8	5997.0	7034.5	6831.6	5673.2
22.5°	5712.0	5721.1	5604.8	5411.0	5354.0	5486.3	5839.7	6040.3	7185.0	7203.3	5734.8
25°	6236.4	6200.0	6177.2	5903.5	5730.2	5844.2	6076.8	6193.1	7278.5	7522.5	5910.4
27.5°	6963.8	6890.9	6751.8	6507.8	6380.1	6218.2	6384.7	6576.2	7545.3	7969.4	6101.9
30°	8037.8	7974.0	7702.6	7388.0	7052.8	6893.2	6945.6	7050.5	8026.4	8487.0	6355.0
32.5°	9654.5	9520.0	9127.8	8528.1	8072.0	7632.0	7618.3	7730.0	8457.4	9203.0	6656.0
35°	11435.4	11394.3	10817.4	10199.5	9317.0	8637.5	8648.9	8708.2	9282.8	10142.5	7050.5
37.5°	12618.8	12844.6	12477.5	11813.9	11072.8	10101.5	9855.2	9875.7	10416.1	11255.3	7761.9
40°	13533.2	13341.7	13385.0	13229.9	12723.7	12062.5	11517.5	11410.3	11727.3	12486.6	8468.8
42.5°	13134.2	13143.3	13410.1	13777.2	13902.6	13854.7	13298.3	13095.4	12849.1	13494.4	9141.5
45°	12007.7	12242.6	12589.2	13560.6	14413.4	15213.7	15104.3	14766.8	13624.4	14292.5	9529.1
47.5°	10210.9	10201.8	10769.6	12032.8	13927.7	15802.0	16299.1	16062.0	14174.0	14203.6	9449.3
48°	9547.4	9711.5	10297.6	11784.3	13619.9	15715.4	16406.3	16107.6	14080.5	14085.0	9380.9
50°	7057.3	7027.7	7757.4	9581.6	12165.1	14766.8	15954.8	16187.4	14078.2	13485.3	8902.0
52.5°	3728.2	3855.9	4387.2	6024.4	8601.1	12085.3	14073.6	14436.2	13581.1	12504.8	8213.4
55°	1584.8	1432.0	1840.2	2720.3	4838.7	8074.3	10324.9	11132.1	11483.3	11066.0	7185.0
57.5°	565.5	617.9	711.4	1023.8	2034.0	4419.1	6156.6	6783.7	7955.7	8119.9	4895.7
60°	362.6	369.4	399.0	469.7	763.9	1703.3	2921.0	3420.4	3951.7	4079.3	2284.8
62.5°	280.5	282.7	296.4	307.8	362.6	661.3	1096.8	1299.7	1349.9	1160.6	599.7
65°	234.9	237.1	241.7	241.7	257.7	310.1	383.1	421.8	410.4	405.9	339.8
67.5°	180.1	184.7	193.8	193.8	202.9	189.3	212.1	225.7	255.4	310.1	289.6
70°	141.4	143.7	150.5	155.1	155.1	136.8	152.8	166.5	187.0	230.3	228.0
72.5°	109.5	114.0	118.6	118.6	111.7	93.5	109.5	120.9	134.5	159.6	155.1
75°	84.4	84.4	86.6	70.7	54.7	47.9	66.1	79.8	100.3	104.9	86.6
77.5°	22.8	25.1	22.8	20.5	22.8	34.2	43.3	50.2	63.8	63.8	57.0
80°	0.0	2.3	6.8	13.7	22.8	31.9	38.8	43.3	50.2	54.7	52.4
82.5°	0.0	2.3	6.8	13.7	20.5	25.1	34.2	36.5	41.0	47.9	47.9
85°	0.0	2.3	4.6	9.1	13.7	16.0	16.0	13.7	13.7	11.4	9.1
87.5°	0.0	0.0	2.3	4.6	4.6	6.8	6.8	6.8	6.8	6.8	6.8
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: P529137

CATALOG NUMBER: GALN-SA4B-735-U-AFL-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4517.1	4517.1	4517.1	4517.1	4517.1	4517.1	4517.1	4517.1	4517.1	4517.1	4517.1
2.5°	4540.0	4469.3	4362.1	4193.4	4031.5	3926.6	3826.2	3714.5	3652.9	3648.4	3614.2
5°	4594.7	4435.1	4179.7	3890.1	3580.0	3313.2	3044.1	2868.5	2711.2	2624.6	2608.6
7.5°	4624.3	4416.8	4004.1	3518.4	2989.4	2553.9	2252.9	2031.7	1945.0	1881.2	1878.9
10°	4685.9	4384.9	3741.9	3025.9	2371.4	1931.4	1723.9	1623.5	1575.6	1557.4	1530.0
12.5°	4731.5	4325.6	3472.8	2519.7	1874.4	1600.7	1509.5	1486.7	1489.0	1498.1	1486.7
15°	4795.3	4273.2	3110.2	2068.2	1573.4	1441.1	1441.1	1445.7	1477.6	1482.2	1479.9
17.5°	4790.8	4170.6	2736.3	1703.3	1390.9	1372.7	1379.5	1422.9	1443.4	1450.2	1434.3
20°	4845.5	4074.8	2350.9	1454.8	1288.3	1315.7	1361.3	1372.7	1397.8	1402.3	1384.1
22.5°	4829.5	3835.4	1992.9	1258.7	1210.8	1263.3	1308.9	1322.5	1315.7	1302.0	1299.7
25°	4799.9	3630.1	1664.6	1128.7	1153.8	1210.8	1254.1	1229.0	1215.4	1217.6	1219.9
27.5°	4747.5	3370.2	1393.2	1037.5	1076.3	1160.6	1158.4	1149.2	1162.9	1151.5	1162.9
30°	4738.3	3110.2	1169.8	955.4	1019.3	1080.8	1085.4	1101.4	1117.3	1096.8	1117.3
32.5°	4752.0	2825.2	1010.1	905.3	985.1	987.3	1037.5	1053.5	1042.1	996.5	1001.0
35°	4856.9	2606.3	893.9	877.9	930.3	932.6	980.5	960.0	909.8	882.5	898.4
37.5°	5078.1	2423.9	839.1	852.8	857.4	887.0	889.3	848.2	852.8	850.5	859.6
40°	5360.8	2284.8	800.4	830.0	825.4	846.0	763.9	786.7	807.2	814.0	818.6
42.5°	5554.7	2184.5	775.3	793.5	784.4	747.9	702.3	725.1	741.1	766.2	770.7
45°	5641.3	2104.7	745.6	729.7	729.7	663.5	645.3	649.9	686.4	713.7	709.2
47.5°	5499.9	2027.1	693.2	645.3	661.3	606.5	586.0	586.0	624.8	659.0	652.1
48°	5445.2	1995.2	695.5	627.1	638.5	597.4	576.9	572.3	615.7	647.6	647.6
50°	5173.9	1876.6	636.2	576.9	554.1	549.5	535.9	540.4	567.8	597.4	597.4
52.5°	4644.8	1621.2	538.1	494.8	453.8	481.1	488.0	478.8	492.5	519.9	517.6
55°	3876.4	1245.0	431.0	410.4	378.5	408.2	421.8	410.4	396.8	417.3	417.3
57.5°	2483.2	670.4	344.3	348.9	317.0	346.6	358.0	330.6	305.6	321.5	319.2
60°	1119.6	401.3	282.7	275.9	255.4	289.6	307.8	275.9	241.7	253.1	264.5
62.5°	419.6	285.0	214.3	209.8	205.2	237.1	246.3	221.2	187.0	193.8	196.1
65°	307.8	250.8	171.0	155.1	164.2	187.0	182.4	157.3	134.5	134.5	139.1
67.5°	262.2	218.9	139.1	120.9	120.9	123.1	114.0	100.3	93.5	98.1	102.6
70°	205.2	173.3	109.5	93.5	84.4	75.2	66.1	63.8	57.0	63.8	61.6
72.5°	132.3	116.3	84.4	70.7	63.8	52.4	43.3	41.0	34.2	31.9	31.9
75°	70.7	70.7	66.1	57.0	50.2	41.0	34.2	27.4	18.2	13.7	13.7
77.5°	50.2	54.7	59.3	54.7	45.6	34.2	27.4	18.2	9.1	4.6	4.6
80°	47.9	54.7	59.3	52.4	45.6	34.2	25.1	13.7	6.8	2.3	2.3
82.5°	43.3	50.2	54.7	47.9	41.0	29.6	22.8	13.7	6.8	2.3	2.3
85°	9.1	11.4	13.7	13.7	16.0	20.5	16.0	11.4	4.6	2.3	2.3
87.5°	6.8	6.8	6.8	6.8	6.8	6.8	4.6	4.6	2.3	2.3	2.3
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)