

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: P458343

Luminaire Tested: **GALN-SA9D-730-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458343
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-730-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 64494 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

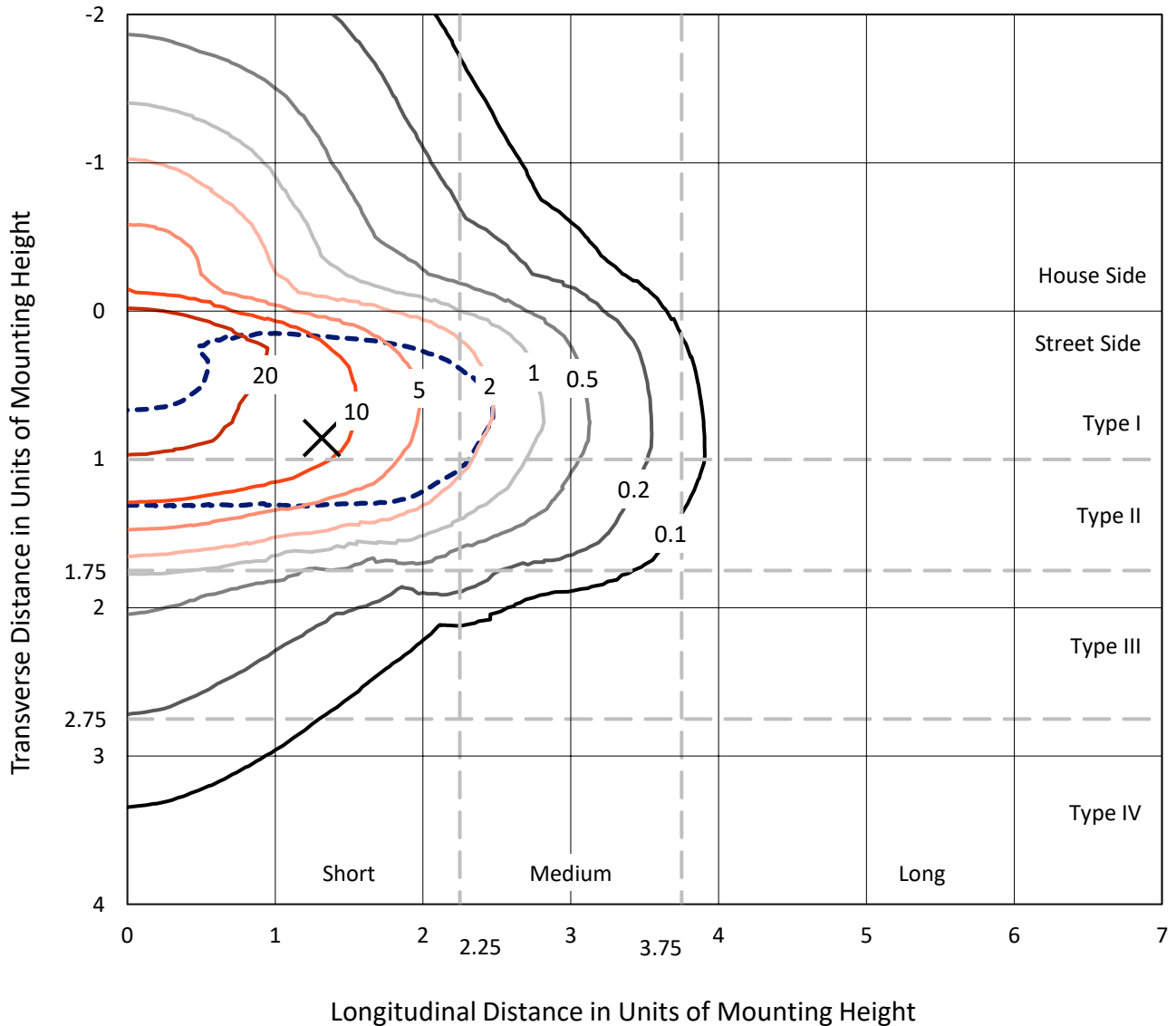
Input Watts (W): 552
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458343
 CATALOG NUMBER: GALN-SA9D-730-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

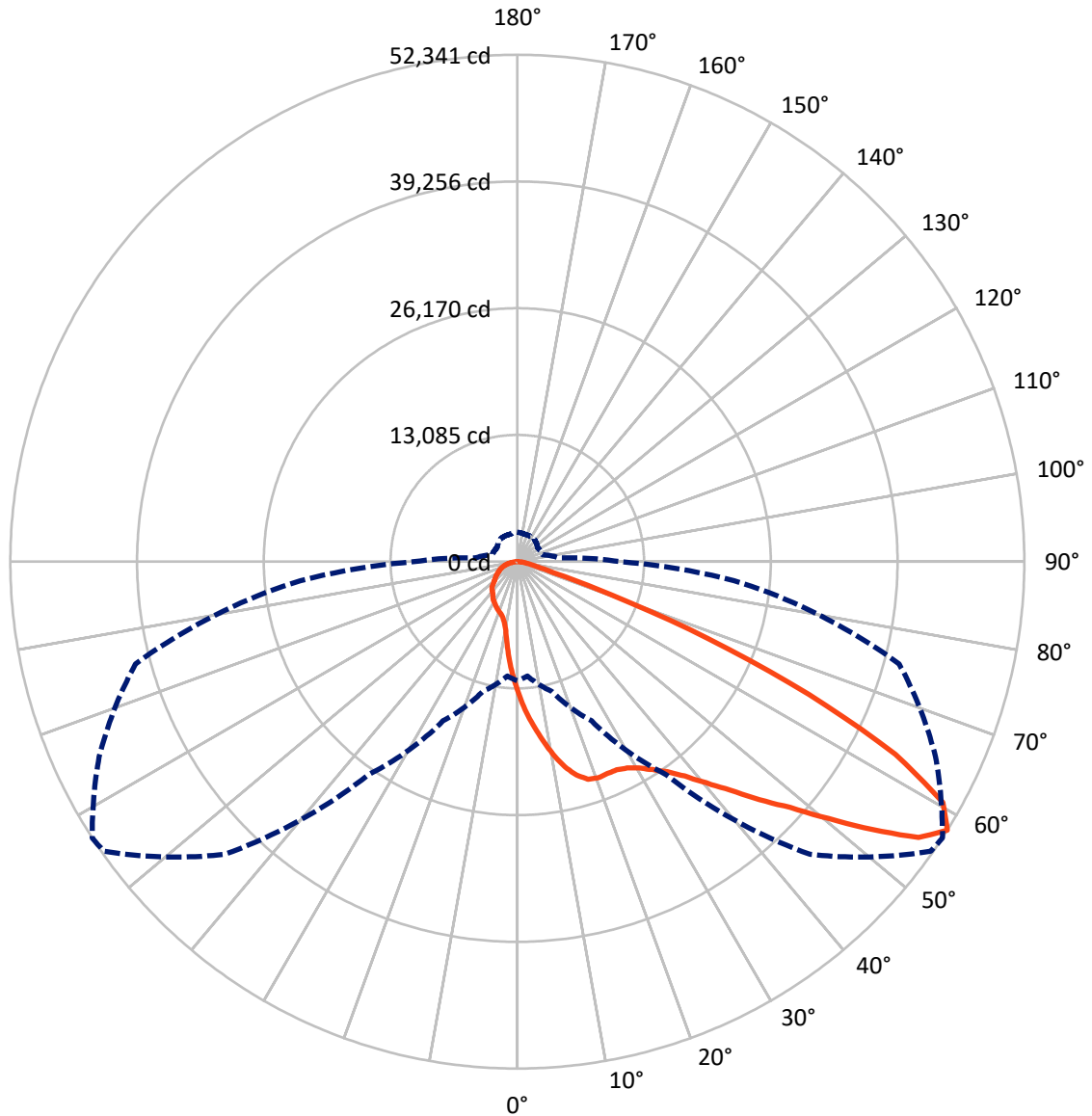
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 33 fc
 Type II - Short - N/A

REPORT NUMBER: P458343
CATALOG NUMBER: GALN-SA9D-730-U-AFL

Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P458343

CATALOG NUMBER: GALN-SA9D-730-U-AFL

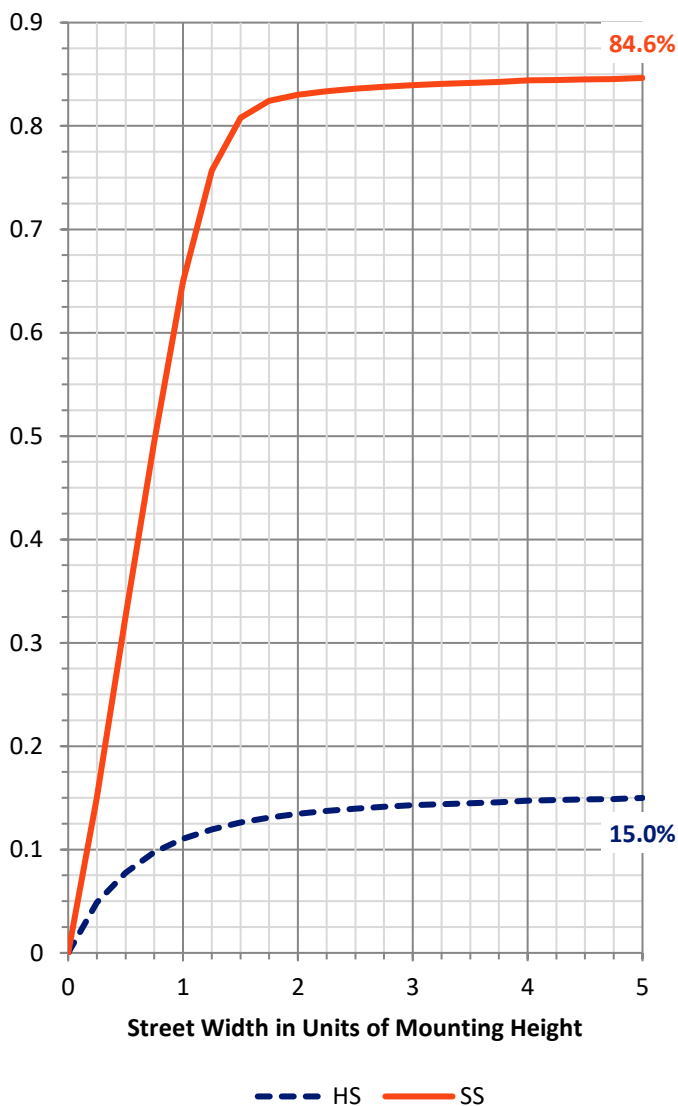
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9807.7	0.0	9807.7
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	54686.3	0.0	54686.3
	% Fixture	84.8	0.0	84.8
Total	Lumens	64494.0	0.0	64494.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1302.2	2.0
10°-20°	3837.8	6.0
20°-30°	6372.7	9.9
30°-40°	9599.1	14.9
40°-50°	14412.1	22.3
50°-60°	16154.2	25.0
60°-70°	9454.2	14.7
70°-80°	2796.5	4.3
80°-90°	565.2	0.9
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°	64494.0	100.0
0°-180°	64494.0	100.0

Coefficient of Utilization



REPORT NUMBER: P458343

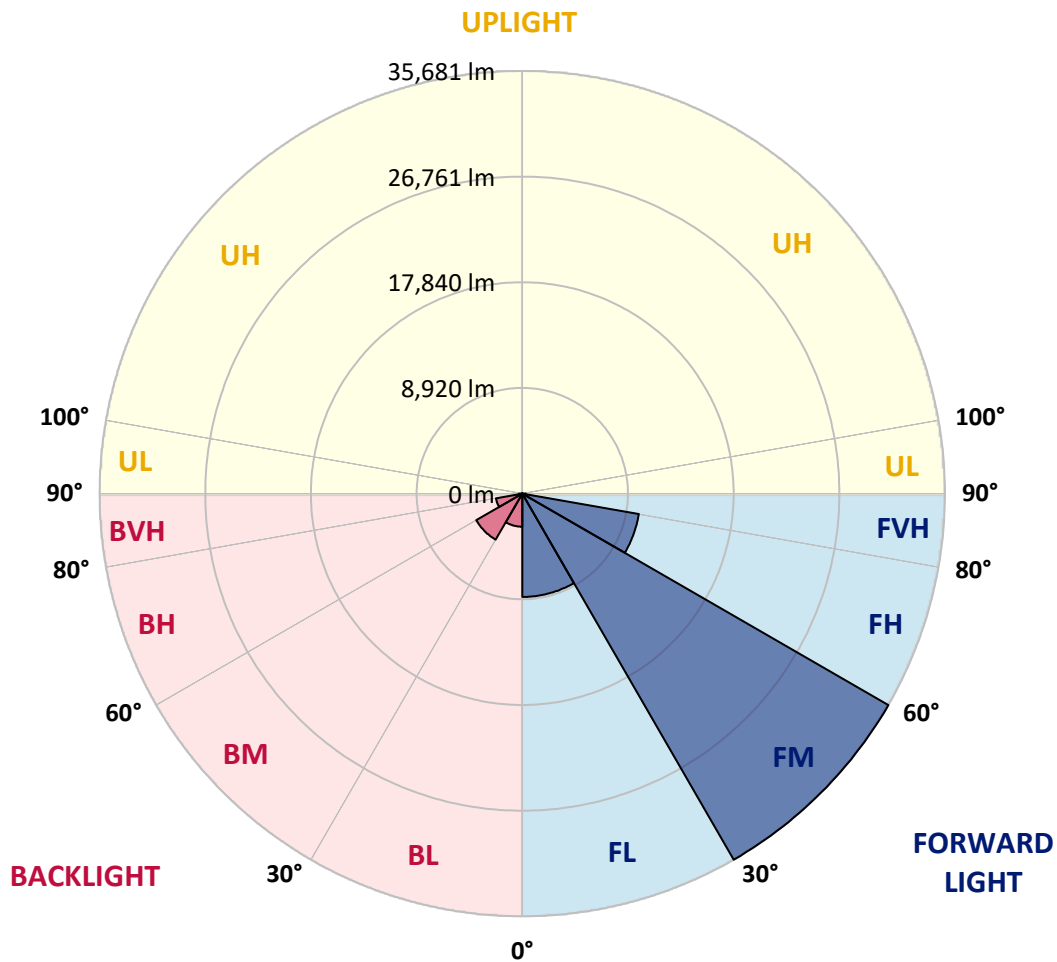
CATALOG NUMBER: GALN-SA9D-730-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	8718.1	13.5			
FM	(30°-60°)	35680.9	55.3			
FH	(60°-80°)	9994.0	15.5			G4/12000
FVH	(80°-90°)	293.3	0.5			G3/500
BL	(0°-30°)	2794.6	4.3	B4/5000		
BM	(30°-60°)	4484.5	7.0	B3/5000		
BH	(60°-80°)	2256.7	3.5	B3/2500		G3/2500
BVH	(80°-90°)	272.0	0.4			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short





REPORT NUMBER: P458343

CATALOG NUMBER: GALN-SA9D-730-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	13549.5	13549.5	13549.5	13549.5	13549.5	13549.5	13549.5	13549.5	13549.5	13549.5	13549.5
2.5°	16836.2	16652.6	16507.9	16380.8	16214.9	15766.5	15318.2	15311.1	14954.5	14403.8	13838.9
5°	19579.3	19332.2	19363.9	18968.5	18573.1	17923.5	16973.9	16924.5	16165.4	15134.6	14086.1
7.5°	21365.6	21369.2	21270.3	21044.4	20617.2	19879.4	18802.6	18559.0	17503.4	15939.5	14368.5
10°	21273.8	21369.2	21535.1	21729.3	21859.9	21496.3	20514.8	20218.3	18845.0	16913.9	14682.7
12.5°	20052.3	20200.6	20437.1	20924.3	21711.6	22311.8	21976.4	21736.3	20398.3	17884.7	15028.7
15°	19289.8	19378.0	19508.7	19837.0	20684.3	22121.1	22989.6	22862.5	21863.4	18982.6	15417.0
17.5°	19056.8	19145.0	19187.4	19388.6	19992.3	21464.5	23388.5	23614.5	23162.6	19992.3	15808.9
20°	19289.8	19332.2	19332.2	19452.2	19925.2	21079.7	23370.9	23826.3	24228.7	21203.2	16176.0
22.5°	19900.5	19918.2	19893.5	19935.8	20288.9	21185.6	23204.9	23769.8	25090.1	22230.6	16462.0
25°	20892.6	20920.8	20758.4	20659.6	20917.3	21651.6	23296.7	23815.7	25764.4	23212.0	16652.6
27.5°	22018.7	22054.0	21856.3	21626.9	21746.9	22227.0	23656.8	24122.8	26269.3	24179.3	16772.7
30°	23399.1	23413.2	23081.4	22806.0	22728.3	23084.9	24271.1	24705.3	26897.7	25319.6	16952.7
32.5°	24811.2	24917.2	24490.0	24101.6	23971.0	24080.5	25178.4	25598.5	27646.1	26544.6	17242.2
35°	26731.7	26749.4	26237.5	25764.4	25333.7	25474.9	26339.9	26643.5	28680.5	27960.3	17651.7
37.5°	29128.8	29291.2	28585.2	27702.6	27173.0	26968.3	27745.0	28076.8	30131.5	29697.2	18269.5
40°	31790.7	31850.7	31247.1	30696.3	29729.0	29135.9	29672.5	30032.6	31921.3	31769.5	18986.2
42.5°	33464.1	33594.7	33640.6	33584.1	32856.9	31861.3	32066.1	32235.5	34039.6	33714.8	19720.5
45°	34029.0	34223.1	34879.8	36270.7	36348.4	35367.0	34890.4	35052.8	36348.4	35677.6	20423.0
47.5°	33093.4	33425.3	34636.2	37488.7	39624.6	39698.7	38261.8	37905.3	38452.5	37305.1	20931.4
50°	30675.1	30745.7	32599.2	36729.7	41160.3	43839.8	42353.5	41689.8	40450.7	38509.0	21280.9
52.5°	26933.0	27014.2	28567.5	33202.9	40214.1	46734.7	47140.7	45954.5	42480.6	39444.5	21510.4
55°	19992.3	20461.9	22170.5	26650.5	35730.6	46462.8	50946.4	50272.1	44934.2	40185.9	21870.5
57.5°	12292.6	11861.9	13888.4	18131.8	26873.0	42727.7	52122.0	52340.8	47634.9	40807.2	22474.2
60°	5655.6	5740.3	6577.0	9351.9	16380.8	33425.3	49092.9	50476.8	49128.2	40786.0	22626.0
62.5°	3897.5	3819.8	3608.0	4105.8	7470.2	21139.7	41467.4	43811.5	46134.5	39518.6	22022.3
65°	3484.4	3406.8	2997.3	2859.6	3431.5	9214.2	30145.6	33104.0	38844.3	36320.2	20518.3
67.5°	3255.0	3149.1	2725.4	2457.1	2450.1	3668.0	17775.3	21337.4	28811.1	30706.9	17778.8
70°	3014.9	2930.2	2510.1	2213.5	2086.4	2305.3	7812.6	10227.4	18707.3	22128.2	13849.5
72.5°	2774.8	2676.0	2298.3	1980.5	1814.6	1726.3	2993.7	3894.0	10569.8	13267.0	8490.5
75°	2425.3	2375.9	2054.7	1793.4	1613.4	1394.5	1899.3	2167.6	5055.4	6093.4	4261.1
77.5°	2121.7	2068.8	1825.2	1567.5	1436.8	1133.2	1348.6	1472.2	2132.3	2471.2	1924.0
80°	1553.4	1606.3	1539.2	1383.9	1281.5	889.6	907.3	1009.7	1267.4	1401.5	1175.6
82.5°	985.0	1083.8	1186.2	1066.2	970.8	702.5	628.4	667.2	864.9	917.9	522.5
85°	413.0	420.1	688.4	649.6	554.3	416.6	377.7	398.9	462.5	483.7	243.6
87.5°	158.9	155.3	243.6	225.9	173.0	120.0	120.0	134.2	183.6	169.5	77.7
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: P458343

CATALOG NUMBER: GALN-SA9D-730-U-AFL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13549.5	13549.5	13549.5	13549.5	13549.5	13549.5	13549.5	13549.5	13549.5	13549.5	13549.5
2.5°	13595.3	13344.7	12846.9	12229.1	11777.2	11268.9	10820.5	10499.2	10379.2	10322.7	10216.8
5°	13584.8	13090.5	12059.6	10979.4	10110.9	9221.3	8469.3	7982.1	7939.7	7614.9	7583.2
7.5°	13588.3	12832.8	11191.2	9602.5	8278.7	7367.8	6746.5	6584.1	6389.9	6340.5	6365.2
10°	13598.9	12504.5	10259.2	8239.8	6958.3	6361.7	6128.7	6065.1	6072.2	6093.4	6096.9
12.5°	13613.0	12186.7	9291.9	7205.4	6216.9	5969.8	5945.1	6001.6	6061.6	6107.5	6118.1
15°	13630.6	11823.1	8349.3	6372.3	5846.2	5825.1	5906.3	6001.6	6086.3	6153.4	6164.0
17.5°	13609.5	11399.5	7558.5	5860.4	5641.5	5743.9	5878.0	5998.1	6075.7	6139.3	6146.3
20°	13560.0	10926.4	6795.9	5500.3	5514.4	5680.3	5825.1	5938.0	6022.8	6054.5	6079.2
22.5°	13369.4	10361.6	6132.2	5221.4	5362.6	5592.1	5765.0	5832.1	5736.8	5669.7	5687.4
25°	13044.6	9627.2	5514.4	4995.4	5224.9	5468.5	5645.0	5482.6	5405.0	5376.7	5390.8
27.5°	12638.6	8822.3	5048.4	4758.9	5048.4	5330.8	5281.4	5253.1	5217.8	5172.0	5182.5
30°	12200.9	8035.1	4653.0	4575.3	4857.8	5020.1	5041.3	5087.2	5048.4	4977.8	5006.0
32.5°	11794.9	7293.7	4352.9	4420.0	4723.6	4698.9	4857.8	4910.7	4730.7	4494.1	4504.7
35°	11448.9	6605.3	4127.0	4268.2	4494.1	4504.7	4663.6	4480.0	4285.8	4172.9	4179.9
37.5°	11187.7	6068.7	3978.7	4137.6	4201.1	4335.3	4250.5	4155.2	4130.5	4052.8	4056.4
40°	11032.3	5599.1	3883.4	4035.2	4024.6	4116.4	3844.5	3939.9	3975.2	3950.5	3954.0
42.5°	10877.0	5267.3	3784.5	3894.0	3890.4	3710.4	3650.4	3731.6	3823.4	3834.0	3826.9
45°	10753.4	5009.6	3682.1	3678.6	3749.2	3466.8	3449.1	3498.6	3629.2	3692.7	3689.2
47.5°	10615.7	4794.2	3526.8	3428.0	3449.1	3315.0	3286.7	3307.9	3466.8	3569.2	3597.4
50°	10442.8	4578.9	3332.6	3198.5	3110.2	3173.8	3180.8	3184.4	3343.2	3459.7	3484.4
52.5°	10305.1	4416.5	3110.2	3011.4	2905.5	3046.7	3099.6	3106.7	3202.0	3297.3	3315.0
55°	10386.3	4324.7	2891.3	2820.7	2725.4	2916.1	3018.4	3032.6	3053.7	3124.4	3134.9
57.5°	10629.9	4345.9	2714.8	2623.0	2552.4	2760.7	2933.7	2944.3	2930.2	3014.9	3029.0
60°	10704.0	4335.3	2584.2	2404.2	2361.8	2594.8	2810.2	2831.3	2827.8	2951.4	2976.1
62.5°	10393.3	4201.1	2453.6	2220.6	2192.3	2425.3	2637.2	2721.9	2739.5	2916.1	2947.8
65°	9662.5	3925.7	2280.6	2026.4	2026.4	2245.3	2471.2	2587.7	2637.2	2873.7	2909.0
67.5°	8698.8	3600.9	2104.1	1860.5	1853.4	2072.3	2294.7	2414.8	2492.4	2813.7	2834.9
70°	7219.5	3163.2	1885.2	1680.4	1680.4	1878.1	2079.4	2224.1	2337.1	2700.7	2700.7
72.5°	4946.0	2630.1	1620.4	1475.7	1479.2	1662.8	1867.6	2029.9	2164.1	2474.8	2481.8
75°	3127.9	2054.7	1330.9	1256.8	1270.9	1443.9	1655.7	1825.2	2093.5	2446.5	2457.1
77.5°	1662.8	1443.9	1059.1	1041.5	1059.1	1218.0	1454.5	1687.5	2100.6	2121.7	2086.4
80°	1076.8	1023.8	836.7	801.4	808.4	981.4	1295.6	1602.8	1687.5	1708.7	1631.0
82.5°	586.0	649.6	593.1	557.8	557.8	766.1	1105.0	1274.5	1210.9	1006.1	960.3
85°	250.7	303.6	307.1	268.3	257.7	473.1	741.4	695.5	646.1	617.8	610.7
87.5°	70.6	98.8	98.8	74.1	56.5	130.6	148.3	42.4	0.0	3.5	7.1
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)