

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: STREETWORKS

Report Number: P454330

Luminaire Tested: **GLAN-SA5B-830-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454330
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA5B-830-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22455 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

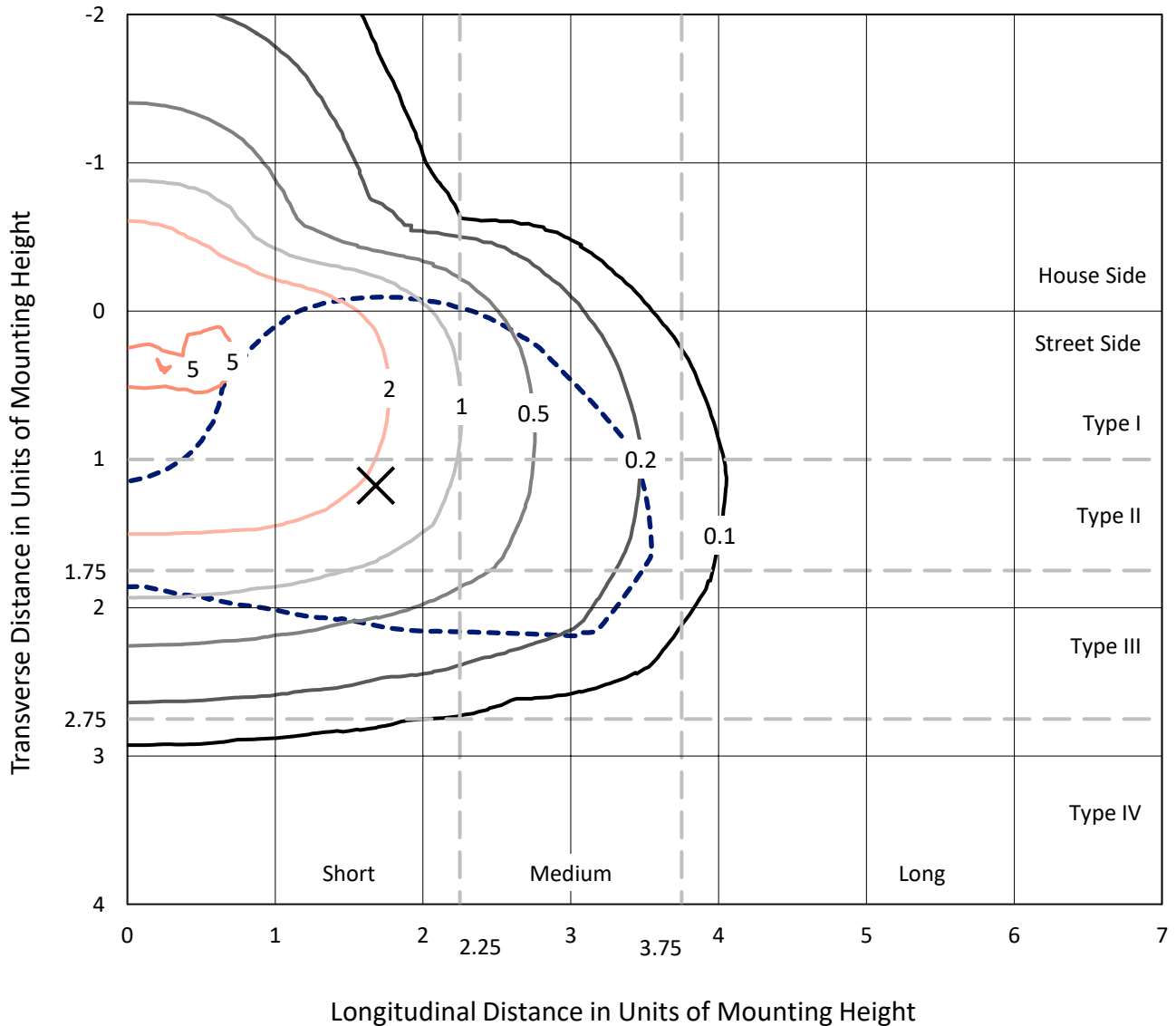
Input Watts (W): 204
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P454330
 CATALOG NUMBER: GLAN-SA5B-830-U-T3

Iso-Footcandle Lines of Horizontal Illumination

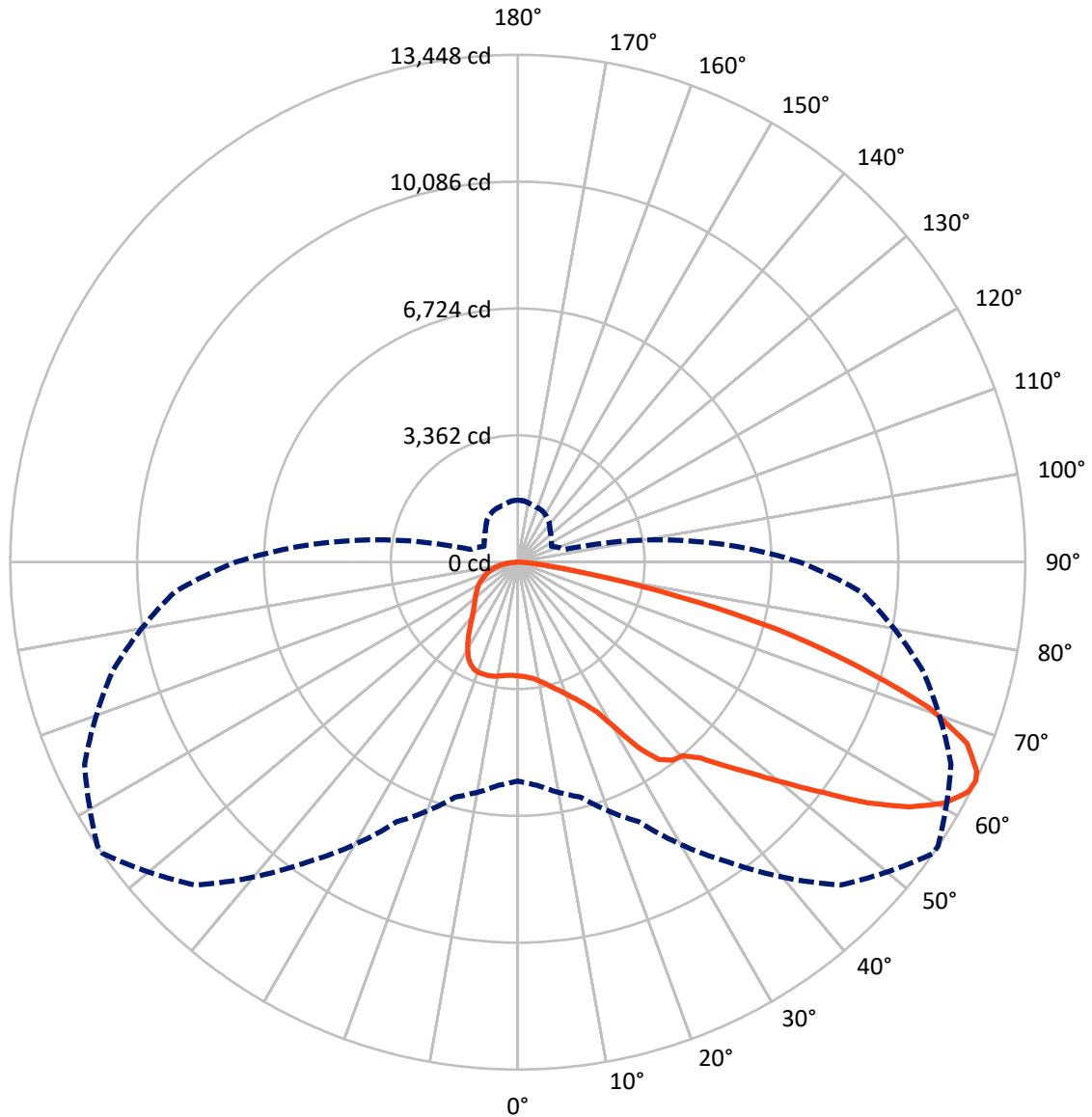
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type III - Short - N/A

REPORT NUMBER: P454330
CATALOG NUMBER: GLAN-SA5B-830-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

REPORT NUMBER: P454330

CATALOG NUMBER: GLAN-SA5B-830-U-T3

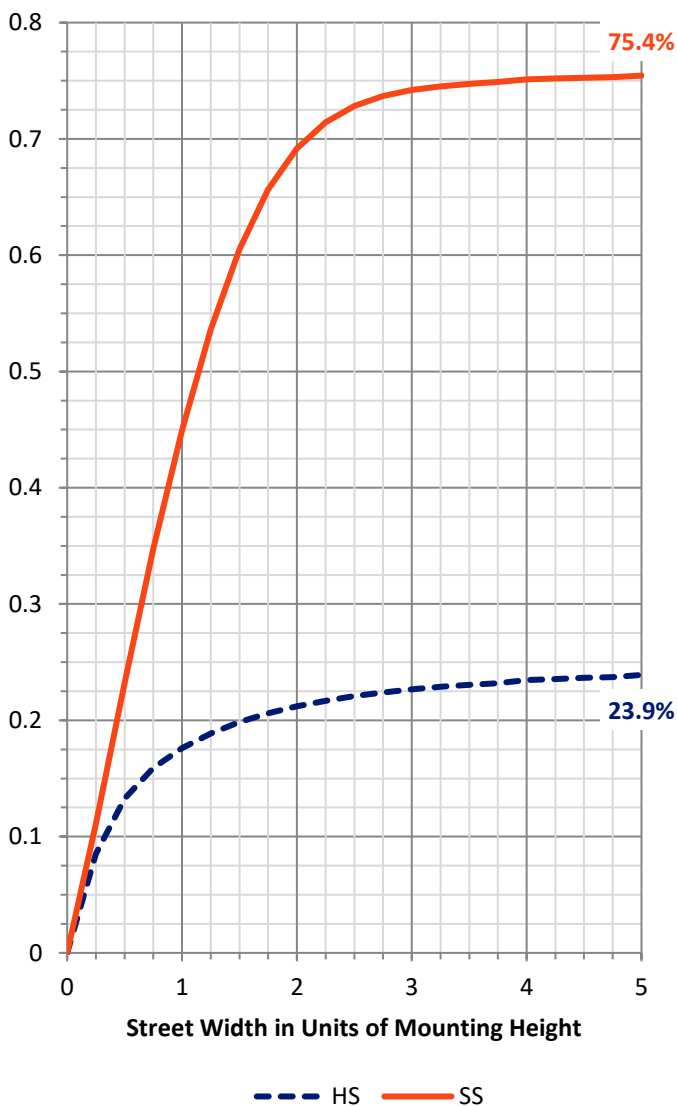
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5454.8	0.0	5454.8
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	17000.2	0.0	17000.2
	% Fixture	75.7	0.0	75.7
Total	Lumens	22455.0	0.0	22455.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.1	1.3
10°-20°	924.7	4.1
20°-30°	1646.2	7.3
30°-40°	2532.9	11.3
40°-50°	3590.6	16.0
50°-60°	5197.3	23.1
60°-70°	5378.6	24.0
70°-80°	2518.8	11.2
80°-90°	372.9	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°	22455.0	100.0
0°-180°	22455.0	100.0



REPORT NUMBER: P454330

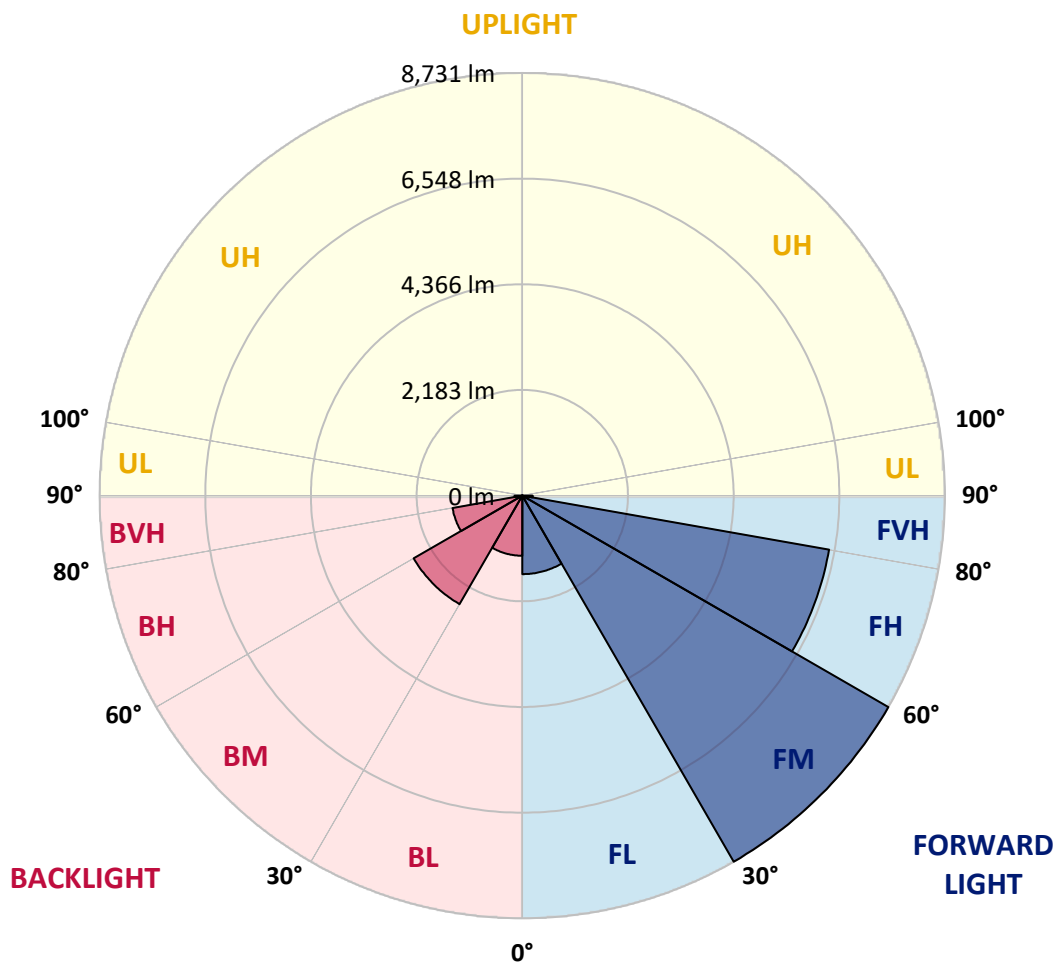
CATALOG NUMBER: GLAN-SA5B-830-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1621.6	7.2			
FM	(30°-60°)	8731.1	38.9			
FH	(60°-80°)	6434.0	28.7			G3/7500
FVH	(80°-90°)	213.5	1.0			G2/225
BL	(0°-30°)	1242.4	5.5	B3/2500		
BM	(30°-60°)	2589.6	11.5	B3/5000		
BH	(60°-80°)	1463.4	6.5	B3/2500		G3/2500
BVH	(80°-90°)	159.4	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





REPORT NUMBER: P454330

CATALOG NUMBER: GLAN-SA5B-830-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3012.8	3012.8	3012.8	3012.8	3012.8	3012.8	3012.8	3012.8	3012.8	3012.8	3012.8
2.5°	3046.6	3045.3	3049.1	3045.3	3047.8	3039.1	3035.3	3037.8	3034.1	3027.8	3016.5
5°	3084.1	3082.9	3084.1	3079.1	3081.6	3076.6	3067.9	3070.4	3064.1	3050.3	3034.1
7.5°	3148.0	3143.0	3143.0	3141.7	3136.7	3129.2	3122.9	3120.4	3114.2	3096.6	3071.6
10°	3230.6	3230.6	3231.8	3221.8	3228.1	3214.3	3208.0	3206.8	3185.5	3163.0	3127.9
12.5°	3339.5	3345.7	3342.0	3337.0	3334.5	3329.5	3308.2	3313.2	3289.4	3250.6	3208.0
15°	3474.7	3484.7	3478.4	3475.9	3469.6	3450.9	3442.1	3438.4	3407.1	3350.7	3294.4
17.5°	3653.6	3641.1	3636.1	3629.9	3603.6	3589.8	3574.8	3572.3	3544.7	3478.4	3390.8
20°	3810.1	3827.6	3817.6	3811.4	3785.1	3758.8	3747.5	3743.8	3720.0	3647.4	3507.2
22.5°	3996.6	4000.4	4004.1	3989.1	3976.6	3956.5	3936.5	3930.3	3921.5	3846.4	3674.9
25°	4195.6	4210.6	4198.1	4183.1	4168.1	4166.8	4185.6	4183.1	4179.3	4106.7	3897.7
27.5°	4519.8	4533.6	4537.3	4521.1	4463.5	4468.5	4511.0	4524.8	4582.4	4462.2	4184.4
30°	4702.5	4716.3	4747.6	4808.9	4900.3	4980.4	5083.1	5114.3	5169.4	4942.9	4524.8
32.5°	4815.2	4820.2	4876.5	4990.4	5264.5	5563.7	5842.8	5854.1	5889.1	5571.2	4836.5
35°	4992.9	4996.7	5041.7	5166.9	5488.6	5986.8	6418.6	6432.4	6403.6	5766.5	4981.7
37.5°	5212.0	5222.0	5250.8	5354.7	5738.9	6341.0	6657.7	6647.6	6392.3	5921.7	5238.3
40°	5531.2	5531.2	5497.4	5637.5	6003.0	6543.8	6741.5	6724.0	6656.4	6371.0	5628.8
42.5°	5812.8	5807.8	5887.9	5983.0	6333.5	6856.7	7093.2	7122.0	7233.4	6935.5	6073.1
45°	6179.5	6202.1	6247.1	6419.8	6895.5	7391.1	7696.6	7724.1	7881.8	7600.2	6592.6
47.5°	6550.0	6557.5	6699.0	6929.3	7591.4	8115.9	8366.2	8411.3	8555.2	8377.5	7152.1
50°	6812.9	6884.2	7110.8	7473.8	8308.6	8999.5	9194.8	9248.6	9502.7	9223.6	7804.2
52.5°	7090.7	7160.8	7437.5	7990.7	9132.2	9903.3	10143.6	10179.9	10444.0	10079.7	8471.3
55°	7328.6	7393.6	7707.8	8448.8	9788.1	10825.7	11261.3	11218.8	11345.2	10739.4	8985.8
57.5°	7367.4	7419.9	7815.5	8741.7	10281.3	11616.8	12241.4	12266.4	12120.0	11232.5	9410.1
60°	7067.0	7174.6	7629.0	8710.4	10502.8	12167.5	12972.4	12989.9	12574.3	11485.4	9579.1
62.5°	6535.0	6523.7	7073.2	8207.2	10192.4	12292.7	13402.9	13384.2	12752.1	11364.0	9415.1
64°	5800.3	5935.4	6448.6	7588.9	9691.7	12099.9	13448.0	13438.0	12667.0	11111.1	9136.0
65°	5352.2	5344.7	5851.6	7083.2	9193.6	11809.6	13367.9	13354.1	12489.2	10884.6	8919.4
67.5°	3863.9	3881.4	4382.1	5466.1	7473.8	10674.3	12845.9	12794.6	11788.3	10133.6	8095.8
70°	2340.6	2350.6	2743.7	3626.1	5364.7	8629.1	11579.3	11581.8	10715.6	9012.1	6890.5
72.5°	1232.9	1259.2	1416.9	2059.0	3258.1	6054.4	9393.8	9616.6	9199.8	7691.5	5443.5
75°	685.9	689.7	801.1	1015.1	1662.2	3388.3	7060.7	7124.5	7283.5	6190.8	4025.4
77.5°	523.2	530.7	565.8	655.9	905.0	1570.9	4273.2	4593.6	5133.1	4364.6	2296.8
80°	424.3	431.8	461.9	515.7	602.1	744.7	1985.2	2157.9	2747.4	1937.6	896.2
82.5°	330.4	325.4	364.2	399.3	438.1	440.6	814.8	901.2	1119.0	833.6	388.0
85°	245.3	245.3	276.6	269.1	282.9	257.8	359.2	396.8	448.1	354.2	180.2
87.5°	97.6	107.6	181.5	162.7	126.4	101.4	132.7	140.2	155.2	138.9	75.1
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: P454330

CATALOG NUMBER: GLAN-SA5B-830-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3012.8	3012.8	3012.8	3012.8	3012.8	3012.8	3012.8	3012.8	3012.8	3012.8	3012.8
2.5°	3017.8	3021.5	3012.8	3006.5	3004.0	3000.3	2996.5	2997.8	3002.8	3007.8	3006.5
5°	3032.8	3034.1	3019.0	3011.5	3006.5	3001.5	3001.5	3005.3	3015.3	3022.8	3022.8
7.5°	3070.4	3070.4	3049.1	3035.3	3027.8	3019.0	3016.5	3017.8	3025.3	3035.3	3036.6
10°	3129.2	3124.2	3096.6	3075.4	3061.6	3040.3	3021.5	3011.5	3015.3	3021.5	3021.5
12.5°	3200.5	3186.8	3151.7	3122.9	3089.1	3049.1	3010.3	2990.3	2989.0	2995.3	2992.8
15°	3276.9	3261.9	3213.1	3160.5	3101.7	3042.8	2996.5	2967.7	2945.2	2938.9	2952.7
17.5°	3365.8	3334.5	3266.9	3194.3	3106.7	3030.3	2957.7	2898.9	2858.8	2847.6	2851.3
20°	3473.4	3432.1	3340.7	3226.8	3102.9	2985.2	2872.6	2793.7	2728.7	2708.6	2711.1
22.5°	3622.3	3551.0	3417.1	3243.1	3071.6	2900.1	2743.7	2641.0	2562.2	2530.9	2549.7
25°	3791.3	3713.7	3489.7	3239.3	2990.3	2763.7	2591.0	2457.0	2385.7	2339.4	2349.4
27.5°	4024.1	3886.5	3567.3	3205.5	2873.8	2597.2	2397.0	2270.5	2205.5	2181.7	2192.9
30°	4322.0	4110.5	3651.1	3114.2	2689.9	2386.9	2201.7	2119.1	2080.3	2050.2	2060.3
32.5°	4537.3	4268.2	3669.9	2960.2	2490.8	2195.4	2069.0	2007.7	1965.1	1936.3	1942.6
35°	4691.3	4402.1	3661.2	2771.2	2283.1	2037.7	1963.9	1913.8	1845.0	1782.4	1771.1
37.5°	4897.8	4569.9	3597.3	2564.7	2077.8	1931.3	1878.8	1786.1	1687.3	1603.4	1599.6
40°	5214.5	4766.4	3460.9	2321.9	1902.5	1852.5	1788.6	1668.5	1562.1	1494.5	1489.5
42.5°	5541.2	4947.9	3275.6	2066.5	1758.6	1769.9	1692.3	1573.4	1508.3	1464.5	1459.5
45°	5940.5	5144.4	3075.4	1845.0	1652.2	1692.3	1608.4	1539.6	1500.8	1472.0	1464.5
47.5°	6372.3	5345.9	2850.1	1646.0	1562.1	1620.9	1573.4	1542.1	1520.8	1500.8	1492.0
50°	6837.9	5571.2	2638.5	1485.7	1480.7	1547.1	1569.6	1558.3	1545.8	1539.6	1532.1
52.5°	7348.6	5801.5	2460.8	1373.1	1409.4	1494.5	1570.9	1579.6	1579.6	1575.9	1570.9
55°	7694.1	5961.7	2280.6	1281.7	1336.8	1451.9	1568.3	1602.1	1614.7	1609.7	1604.6
57.5°	7949.4	6049.3	2054.0	1202.9	1275.5	1410.6	1554.6	1604.6	1617.2	1623.4	1620.9
60°	8002.0	5968.0	1757.4	1120.2	1209.1	1350.6	1504.5	1567.1	1583.4	1622.2	1625.9
62.5°	7765.4	5717.7	1462.0	1038.9	1127.8	1259.2	1436.9	1524.5	1557.1	1617.2	1623.4
64°	7475.0	5437.3	1298.0	987.6	1075.2	1207.9	1403.1	1513.3	1555.8	1635.9	1640.9
65°	7262.2	5233.3	1195.4	955.0	1041.4	1174.1	1384.4	1517.0	1567.1	1664.7	1672.2
67.5°	6478.7	4531.1	988.8	878.7	961.3	1116.5	1388.1	1548.3	1564.6	1676.0	1674.7
70°	5360.9	3607.3	828.6	808.6	883.7	1070.2	1373.1	1498.3	1499.5	1573.4	1555.8
72.5°	4014.1	2666.1	718.5	736.0	797.3	960.0	1296.7	1430.7	1409.4	1419.4	1401.9
75°	2757.4	1763.6	618.3	658.4	707.2	848.6	1189.1	1299.2	1265.4	1252.9	1240.4
77.5°	1472.0	975.1	514.4	582.0	614.6	733.5	1037.6	1144.0	1109.0	1060.2	1043.9
80°	595.8	459.4	414.3	481.9	500.7	590.8	863.7	930.0	903.7	818.6	791.1
82.5°	299.2	275.4	325.4	379.3	380.5	421.8	642.1	704.7	645.9	542.0	518.2
85°	156.5	161.5	224.0	266.6	235.3	227.8	385.5	426.8	391.8	340.5	306.7
87.5°	56.3	65.1	117.7	116.4	82.6	43.8	85.1	41.3	22.5	13.8	17.5
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)