

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: P528634

Luminaire Tested: **GLAN-SA3D-727-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528634  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA3D-727-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16465.9 lumens  
Efficiency: N/A  
Efficacy: 89.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

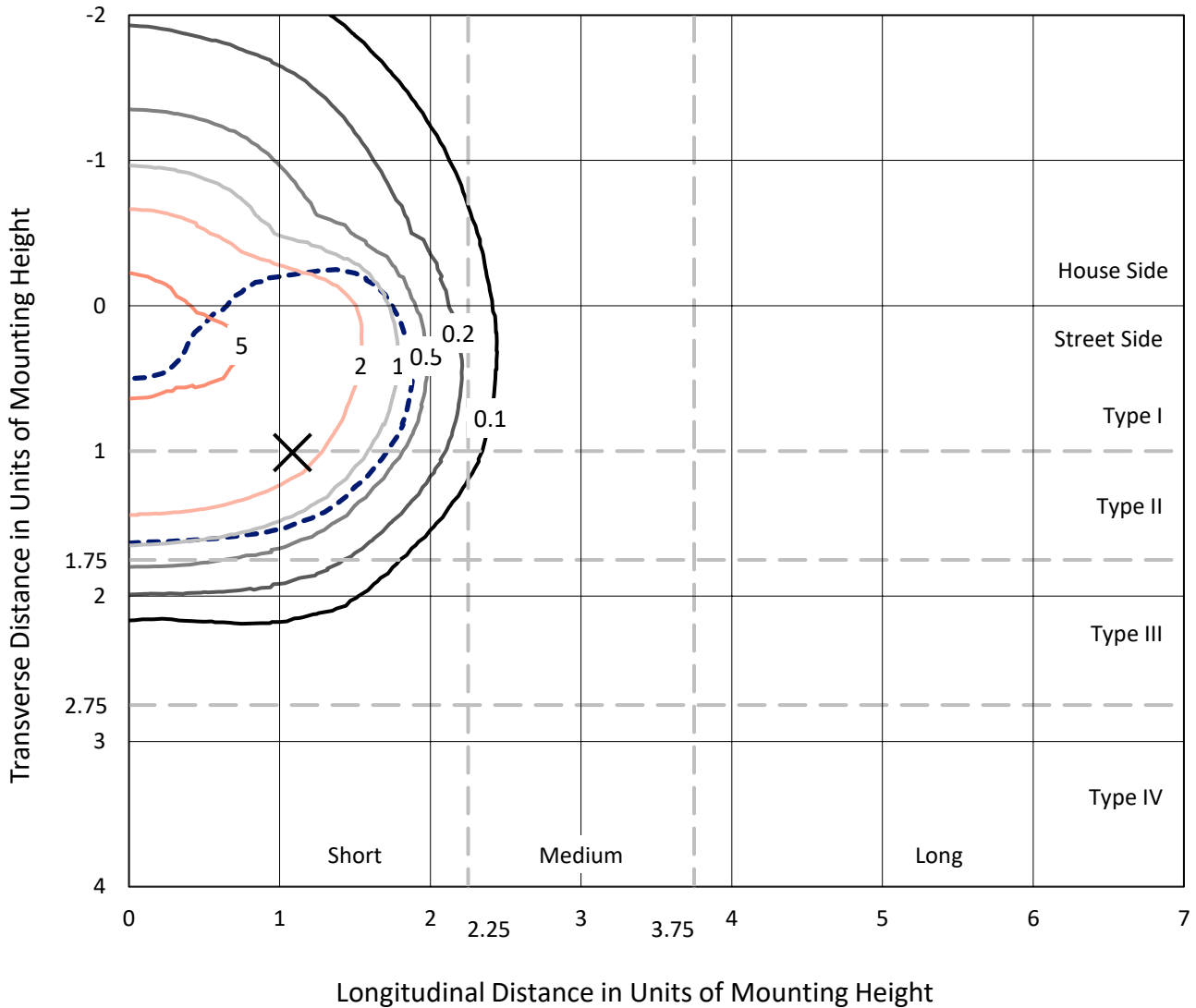
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

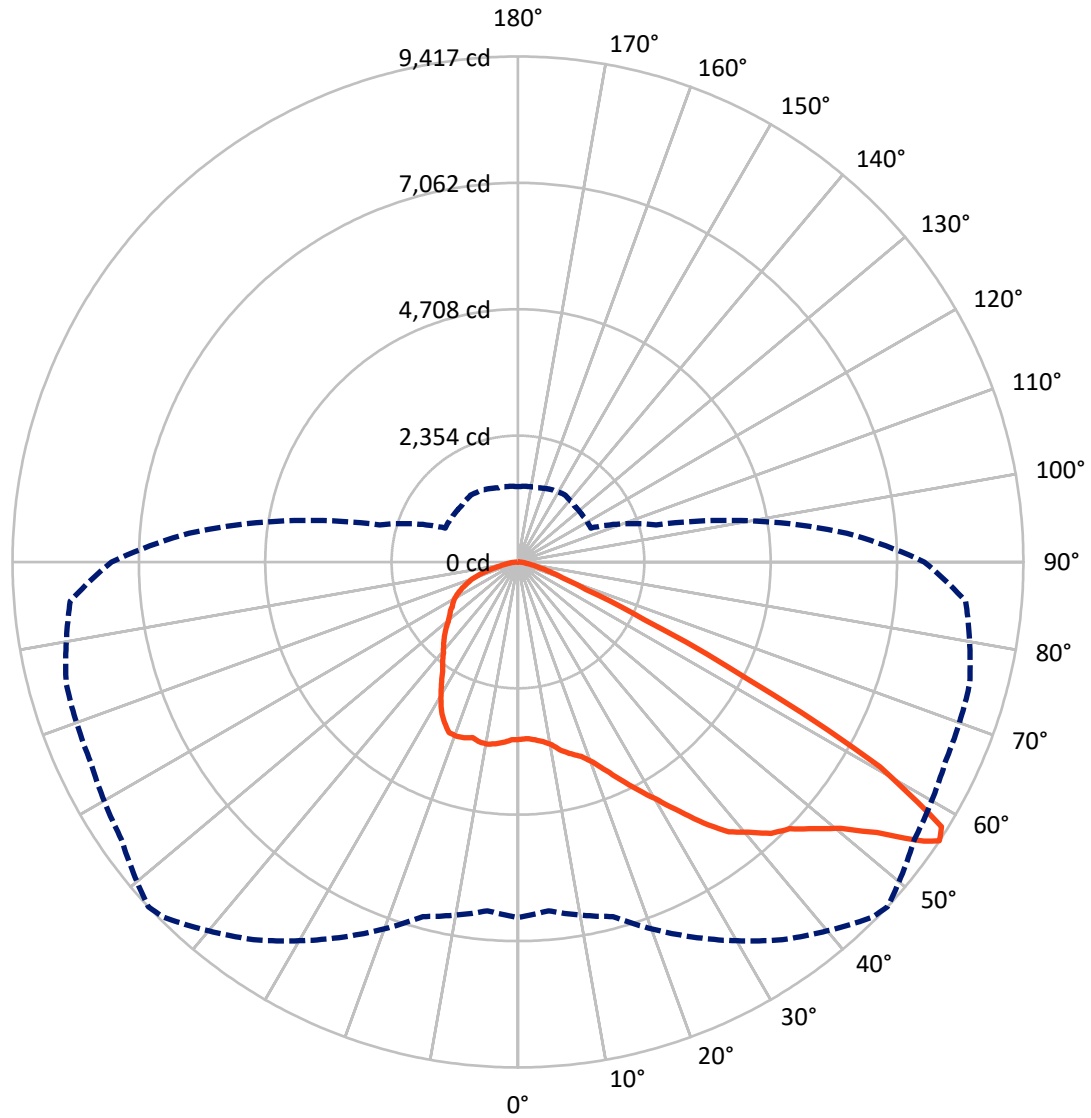
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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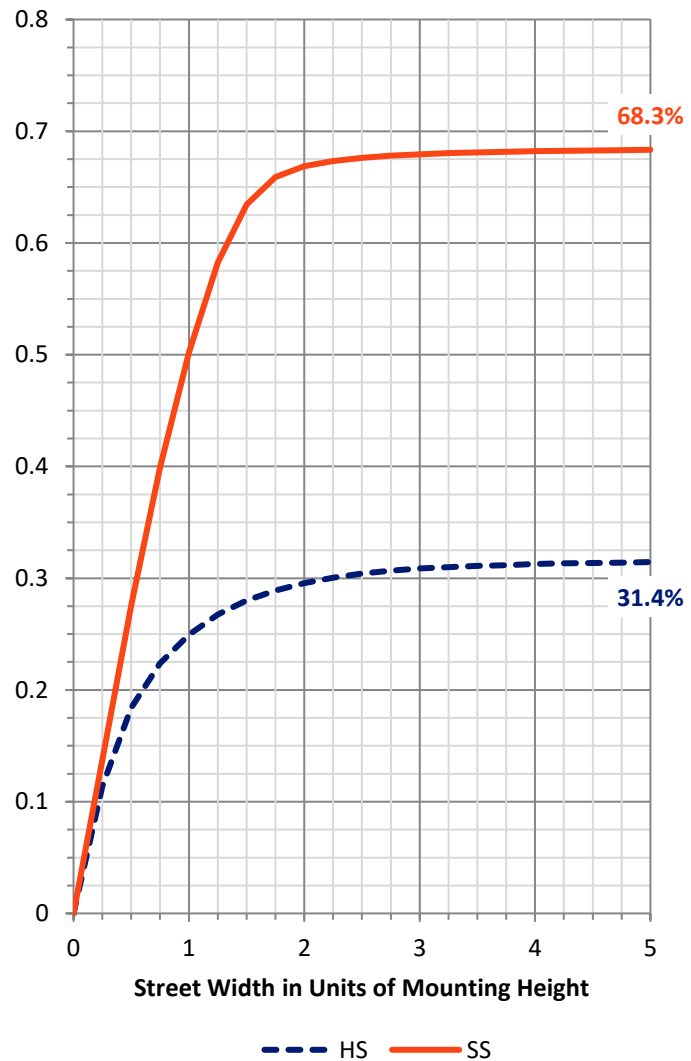
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5217.8	0.0	5217.8
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	11248.1	0.0	11248.1
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	16465.9	0.0	16465.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	322.3	2.0
10°-20°	1016.6	6.2
20°-30°	1797.1	10.9
30°-40°	2699.2	16.4
40°-50°	3704.4	22.5
50°-60°	4413.3	26.8
60°-70°	1888.6	11.5
70°-80°	534.5	3.2
80°-90°	89.9	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°	16465.9	100.0
0°-180°	16465.9	100.0



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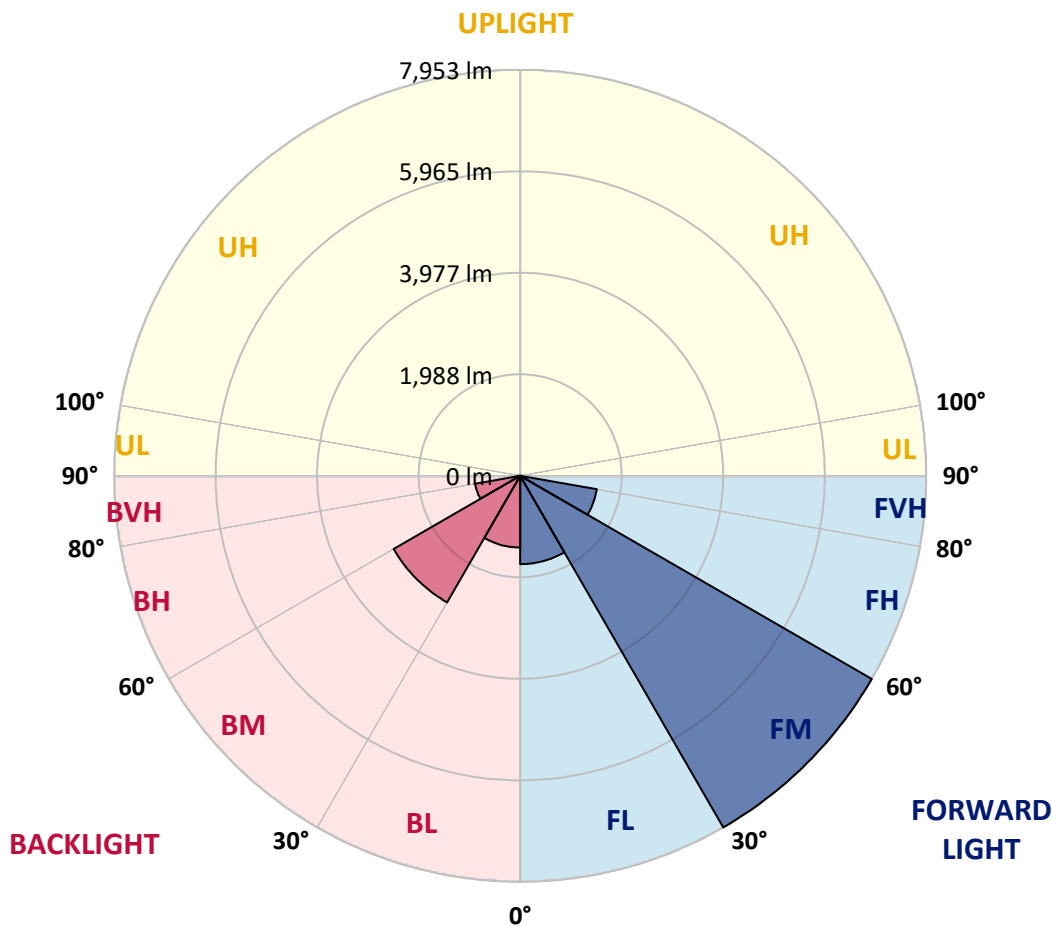
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1731.1	10.5			
FM (30°-60°)	7953.4	48.3			
FH (60°-80°)	1525.3	9.3			G1/1800
FVH (80°-90°)	38.2	0.2			G1/100
BL (0°-30°)	1404.9	8.5	B3/2500		
BM (30°-60°)	2863.5	17.4	B3/5000		
BH (60°-80°)	897.8	5.5	B2/1000		G2/1000
BVH (80°-90°)	51.8	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°	47°	55°	65°	75°	85°
0°	3307.5	3307.5	3307.5	3307.5	3307.5	3307.5	3307.5	3307.5	3307.5	3307.5	3307.5
2.5°	3294.9	3288.6	3284.4	3318.0	3305.4	3307.5	3294.9	3307.5	3315.9	3297.0	3324.3
5°	3288.6	3307.5	3290.7	3301.2	3328.5	3320.1	3328.5	3353.7	3347.4	3341.1	3332.7
7.5°	3347.4	3349.5	3362.1	3366.3	3374.7	3366.3	3378.9	3402.0	3395.7	3360.0	3364.2
10°	3431.4	3435.6	3437.7	3460.8	3475.5	3477.6	3462.9	3441.9	3439.8	3488.1	3454.5
12.5°	3528.0	3517.5	3542.7	3551.1	3567.9	3586.8	3605.7	3561.6	3588.9	3591.0	3551.1
15°	3668.7	3679.2	3649.8	3649.8	3656.1	3658.2	3710.7	3689.7	3685.5	3662.4	3679.2
17.5°	3878.7	3807.3	3805.2	3775.8	3771.6	3788.4	3807.3	3824.1	3880.8	3834.6	3744.3
20°	4032.0	4048.8	3987.9	3952.2	3958.5	3996.3	3977.4	4053.0	4092.9	4017.3	3929.1
22.5°	4302.9	4246.2	4260.9	4181.1	4187.4	4227.3	4225.2	4302.9	4326.0	4206.3	4078.2
25°	4485.6	4470.9	4483.5	4420.5	4428.9	4460.4	4510.8	4638.9	4601.1	4468.8	4172.7
27.5°	4752.3	4722.9	4712.4	4689.3	4680.9	4764.9	4823.7	4960.2	4932.9	4739.7	4340.7
30°	5025.3	5006.4	5016.9	4922.4	4956.0	5134.5	5151.3	5338.2	5325.6	4985.4	4527.6
32.5°	5214.3	5224.8	5243.7	5191.2	5340.3	5483.1	5539.8	5751.9	5762.4	5407.5	4888.8
35°	5518.8	5483.1	5493.6	5554.5	5623.8	5884.2	5976.6	6117.3	6205.5	5850.6	5235.3
37.5°	5709.9	5747.7	5703.6	5800.2	5980.8	6293.7	6377.7	6522.6	6615.0	6287.4	5707.8
40°	6008.1	5947.2	5978.7	6048.0	6232.8	6640.2	6617.1	6766.2	6795.6	6659.1	6148.8
42.5°	6329.4	6300.0	6255.9	6413.4	6568.8	6864.9	6911.1	6841.8	6990.9	7022.4	6778.8
45°	6713.7	6749.4	6755.7	6759.9	6896.4	7154.7	7091.7	7030.8	7203.0	7431.9	7169.4
47.5°	7070.7	6957.3	7039.2	7152.6	7345.8	7347.9	7421.4	7276.5	7459.2	7662.9	7522.2
50°	7190.4	7135.8	7245.0	7459.2	7757.4	7788.9	7797.3	7591.5	7686.0	7847.7	7644.0
52.5°	7144.2	7125.3	7404.6	7736.4	8173.2	8332.8	8374.8	8120.7	8173.2	8099.7	7912.8
55°	6923.7	6980.4	7261.8	7938.0	8607.9	9101.5	9181.3	8860.0	8526.0	8582.7	8376.9
56°	6621.3	6522.6	6837.6	7709.1	8589.0	9351.4	9416.5	9015.4	8788.6	8715.1	8372.7
57.5°	5617.5	5489.4	5903.1	6936.3	8112.3	9256.9	9305.2	9080.5	8744.5	8595.3	7761.6
60°	3288.6	3351.6	3876.6	4783.8	6258.0	7589.4	7751.1	7914.9	7690.2	7022.4	5777.1
62.5°	1587.6	1547.7	1923.6	2742.6	3813.6	4844.7	4796.4	5256.3	5508.3	4989.6	3647.7
65°	831.6	827.4	1050.0	1497.3	2095.8	2545.2	2589.3	2837.1	3183.6	2570.4	1852.2
67.5°	611.1	627.9	739.2	1052.1	1348.2	1375.5	1369.2	1493.1	1526.7	1291.5	1138.2
70°	478.8	487.2	569.1	800.1	1003.8	898.8	879.9	894.6	993.3	1035.3	984.9
72.5°	346.5	354.9	424.2	539.7	627.9	613.2	625.8	707.7	829.5	873.6	821.1
75°	231.0	237.3	275.1	329.7	371.7	401.1	424.2	518.7	632.1	657.3	632.1
77.5°	159.6	165.9	191.1	233.1	237.3	256.2	264.6	308.7	378.0	409.5	392.7
80°	90.3	90.3	102.9	119.7	147.0	172.2	176.4	212.1	243.6	264.6	268.8
82.5°	42.0	44.1	54.6	73.5	96.6	119.7	123.9	147.0	170.1	191.1	197.4
85°	21.0	23.1	31.5	44.1	58.8	71.4	69.3	71.4	75.6	71.4	73.5
87.5°	6.3	6.3	8.4	10.5	8.4	10.5	10.5	12.6	14.7	16.8	18.9
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°	3307.5	3307.5	3307.5	3307.5	3307.5	3307.5	3307.5	3307.5	3307.5	3307.5	3307.5
2.5°	3326.4	3332.7	3290.7	3330.6	3315.9	3313.8	3343.2	3339.0	3349.5	3345.3	3320.1
5°	3328.5	3313.8	3357.9	3318.0	3336.9	3376.8	3349.5	3412.5	3381.0	3402.0	3355.8
7.5°	3393.6	3397.8	3389.4	3406.2	3397.8	3416.7	3402.0	3416.7	3391.5	3393.6	3435.6
10°	3450.3	3437.7	3452.4	3431.4	3446.1	3439.8	3406.2	3395.7	3404.1	3393.6	3420.9
12.5°	3555.3	3532.2	3521.7	3496.5	3479.7	3416.7	3364.2	3334.8	3374.7	3381.0	3368.4
15°	3662.4	3664.5	3616.2	3559.5	3454.5	3360.0	3372.6	3383.1	3383.1	3399.9	3368.4
17.5°	3729.6	3729.6	3685.5	3572.1	3465.0	3410.4	3397.8	3364.2	3334.8	3330.6	3328.5
20°	3847.2	3811.5	3710.7	3570.0	3460.8	3435.6	3341.1	3261.3	3200.4	3179.4	3177.3
22.5°	3981.6	3891.3	3750.6	3574.2	3454.5	3418.8	3242.4	3122.7	3013.5	2967.3	2973.6
25°	4105.5	3960.6	3773.7	3555.3	3431.4	3259.2	3061.8	2895.9	2782.5	2744.7	2725.8
27.5°	4191.6	4034.1	3773.7	3572.1	3345.3	3080.7	2879.1	2667.0	2568.3	2543.1	2547.3
30°	4307.1	4126.5	3838.8	3536.4	3173.1	2849.7	2608.2	2469.6	2410.8	2389.8	2404.5
32.5°	4578.0	4368.0	3929.1	3450.3	2969.4	2618.7	2423.4	2345.7	2259.6	2217.6	2202.9
35°	4872.0	4596.9	4017.3	3305.4	2740.5	2408.7	2286.9	2215.5	2112.6	2066.4	2074.8
37.5°	5287.8	4890.9	4023.6	3066.0	2492.7	2291.1	2179.8	2068.5	1984.5	1913.1	1892.1
40°	5848.5	5292.0	4008.9	2814.0	2293.2	2152.5	2070.6	1932.0	1837.5	1787.1	1797.6
42.5°	6342.0	5762.4	3948.0	2528.4	2112.6	2058.0	1965.6	1829.1	1736.7	1684.2	1680.0
45°	6757.8	6108.9	3832.5	2284.8	1961.4	1953.0	1845.9	1740.9	1667.4	1619.1	1640.1
47.5°	7142.1	6388.2	3658.2	2041.2	1822.8	1839.6	1736.7	1671.6	1625.4	1581.3	1579.2
50°	7280.7	6384.0	3504.9	1839.6	1711.5	1703.1	1698.9	1629.6	1581.3	1543.5	1560.3
52.5°	7511.7	6455.4	3339.0	1701.0	1610.7	1612.8	1627.5	1577.1	1522.5	1499.4	1520.4
55°	7843.5	6465.9	2973.6	1539.3	1526.7	1541.4	1541.4	1507.8	1461.6	1442.7	1432.2
56°	7572.6	6153.0	2667.0	1497.3	1484.7	1484.7	1524.6	1486.8	1430.1	1415.4	1402.8
57.5°	6984.6	5390.7	2232.3	1446.9	1428.0	1457.4	1478.4	1438.5	1386.0	1365.0	1377.6
60°	4817.4	3647.7	1677.9	1337.7	1337.7	1386.0	1402.8	1344.0	1320.9	1318.8	1302.0
62.5°	2811.9	2125.2	1312.5	1239.0	1243.2	1283.1	1295.7	1262.1	1232.7	1268.4	1285.2
65°	1491.0	1268.4	1125.6	1134.0	1136.1	1167.6	1222.2	1220.1	1218.0	1228.5	1230.6
67.5°	1079.4	1054.2	1022.7	1014.3	1018.5	1041.6	1096.2	1138.2	1136.1	1110.9	1092.0
70°	961.8	926.1	907.2	909.3	892.5	919.8	963.9	991.2	942.9	913.5	900.9
72.5°	800.1	789.6	777.0	779.1	745.5	739.2	688.8	688.8	676.2	667.8	682.5
75°	611.1	606.9	613.2	602.7	567.0	529.2	499.8	472.5	430.5	413.7	405.3
77.5°	386.4	399.0	413.7	390.6	375.9	348.6	319.2	291.9	258.3	239.4	239.4
80°	262.5	273.0	283.5	279.3	262.5	237.3	214.2	184.8	161.7	147.0	144.9
82.5°	199.5	207.9	222.6	205.8	189.0	168.0	149.1	128.1	107.1	90.3	90.3
85°	71.4	81.9	90.3	98.7	105.0	107.1	92.4	75.6	60.9	48.3	46.2
87.5°	18.9	21.0	23.1	21.0	21.0	21.0	23.1	21.0	18.9	14.7	14.7
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)