

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: P530293

Luminaire Tested: **GALN-SA5C-730-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530293
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-730-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18914 lumens
Efficiency: N/A
Efficacy: 70.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

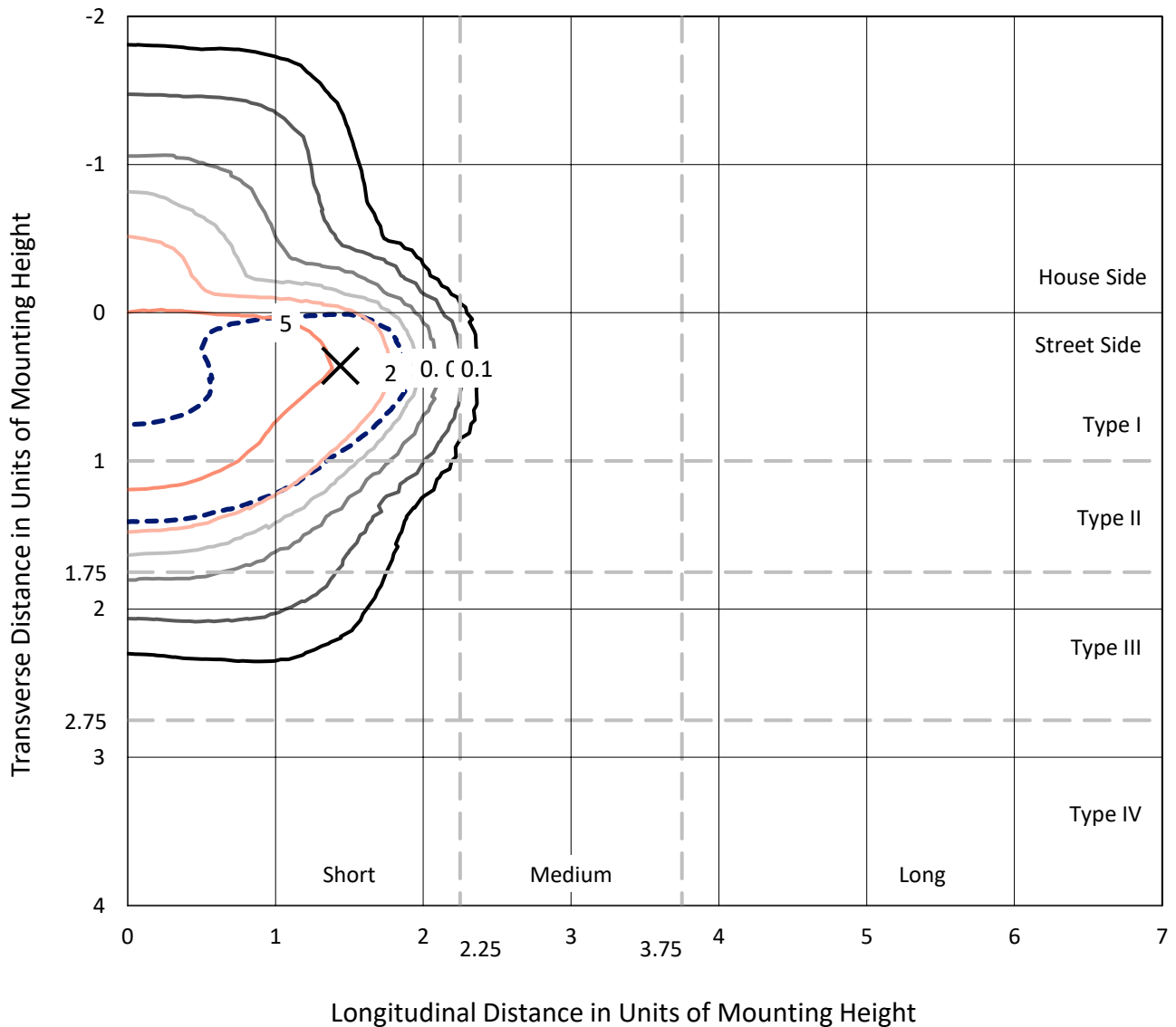
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

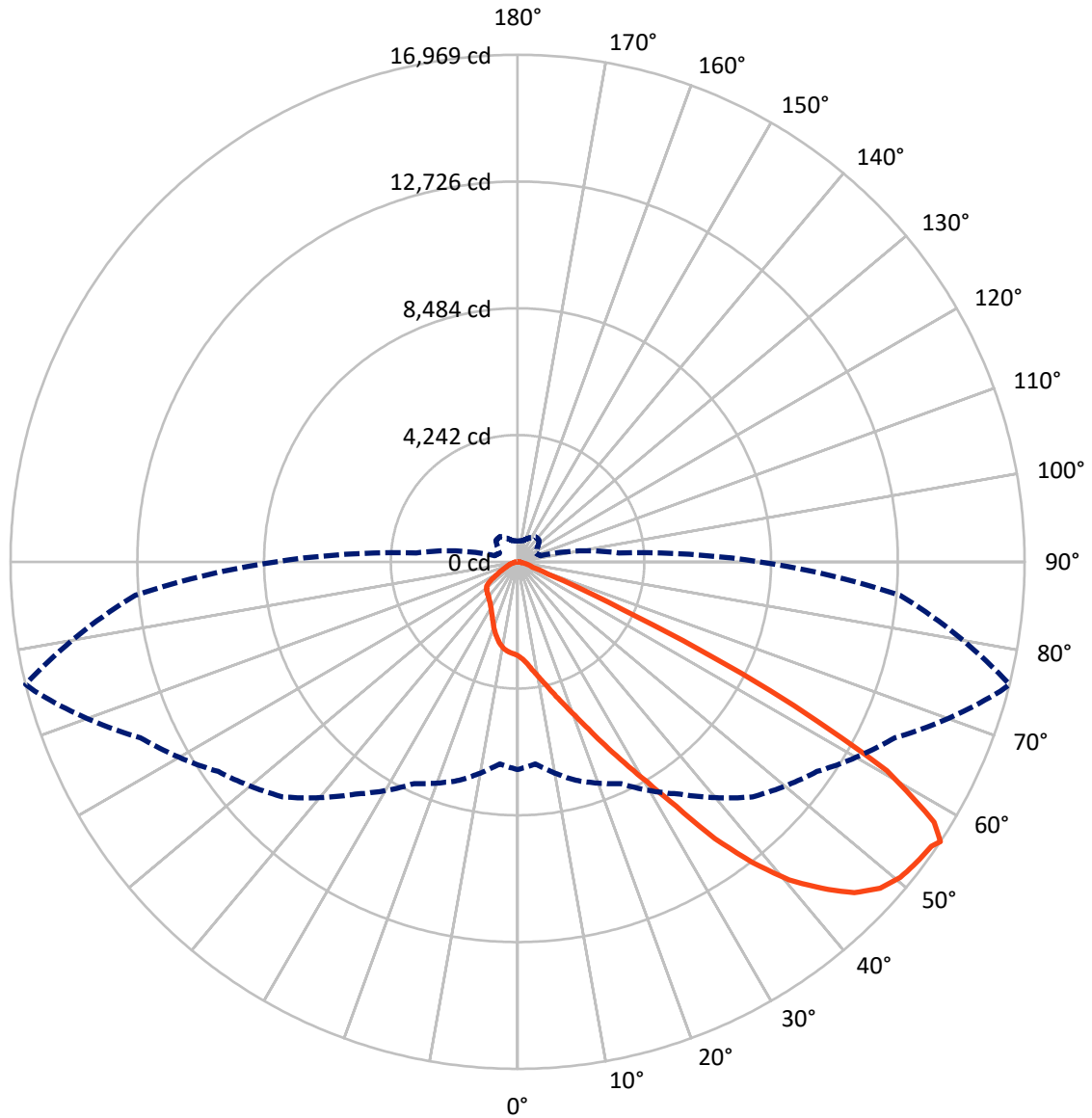
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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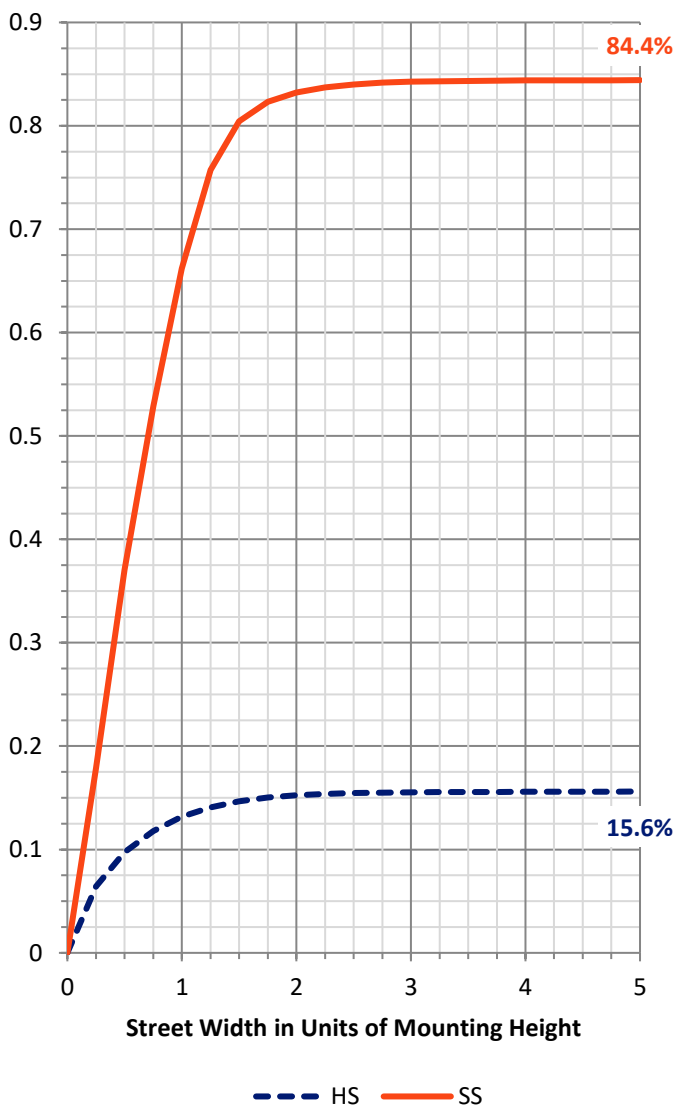
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2971.3	0.0	2971.3
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	15942.7	0.0	15942.7
	% Fixture	84.3	0.0	84.3
Total	Lumens	18914.0	0.0	18914.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.1	1.7
10°-20°	1018.9	5.4
20°-30°	1847.5	9.8
30°-40°	3186.1	16.8
40°-50°	5175.9	27.4
50°-60°	5455.5	28.8
60°-70°	1666.9	8.8
70°-80°	213.7	1.1
80°-90°	32.5	0.2
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°	18914.0	100.0
0°-180°	18914.0	100.0

Coefficient of Utilization



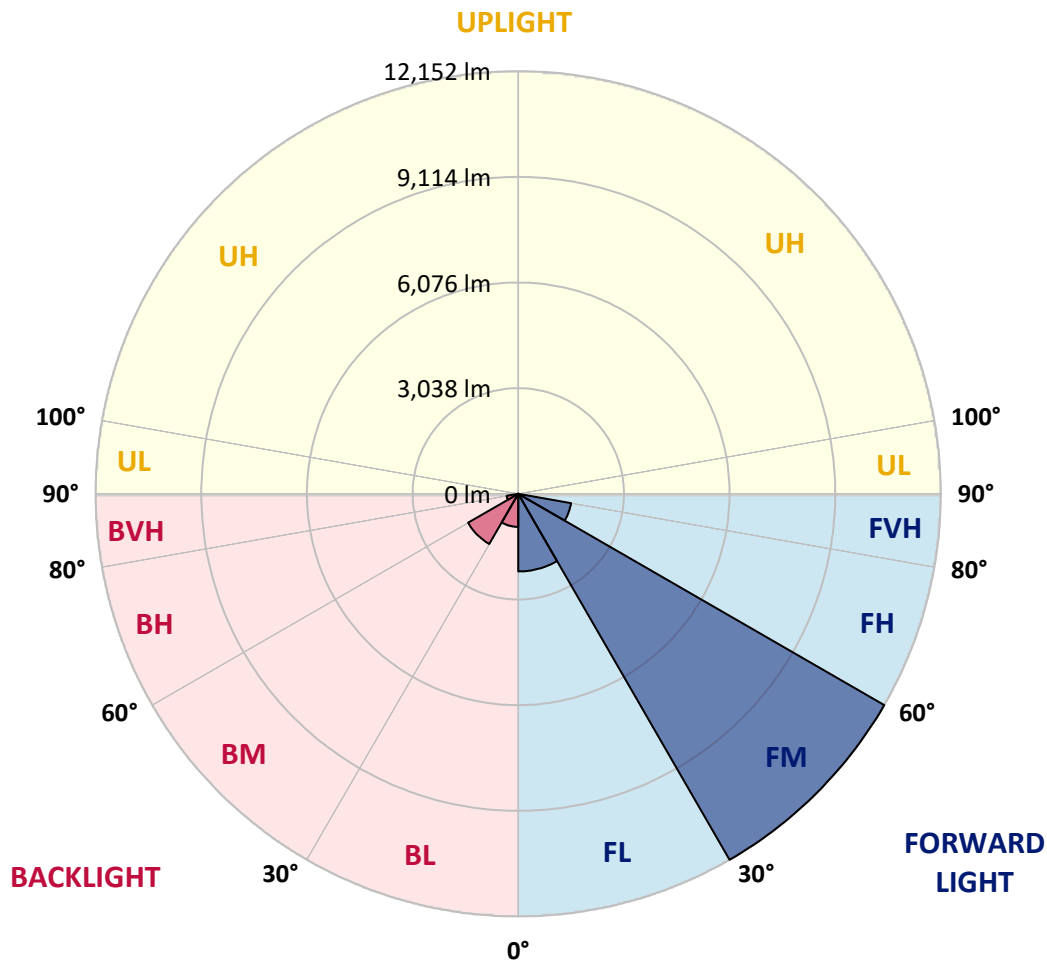
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2233.0	11.8			
FM (30°-60°)	12152.2	64.2			
FH (60°-80°)	1541.6	8.2			G1/1800
FVH (80°-90°)	15.9	0.1			G1/100
BL (0°-30°)	950.5	5.0	B2/1000		
BM (30°-60°)	1665.2	8.8	B2/2500		
BH (60°-80°)	339.0	1.8	B1/500		G1/500
BVH (80°-90°)	16.6	0.1			G1/100
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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3148.3	3148.3	3148.3	3148.3	3148.3	3148.3	3148.3	3148.3	3148.3	3148.3	3148.3
2.5°	3625.9	3542.2	3545.7	3538.7	3528.3	3489.9	3374.9	3357.5	3280.7	3259.8	3190.1
5°	4061.7	3988.5	4030.3	3967.6	3908.3	3873.4	3685.2	3598.0	3476.0	3430.7	3333.0
7.5°	4333.7	4298.8	4284.8	4288.3	4232.5	4145.4	4061.7	3870.0	3706.1	3671.2	3465.5
10°	4466.1	4445.2	4466.1	4455.7	4480.1	4490.5	4344.1	4229.1	3988.5	3929.2	3608.5
12.5°	4497.5	4539.4	4556.8	4602.1	4661.4	4762.5	4752.0	4595.1	4274.4	4236.0	3828.1
15°	4574.2	4609.1	4591.7	4664.9	4776.4	4947.3	5037.9	5013.5	4668.4	4598.6	4082.6
17.5°	4644.0	4581.2	4640.5	4786.9	4898.5	5159.9	5379.6	5480.7	5097.2	5017.0	4316.2
20°	4738.1	4720.7	4710.2	4783.4	4982.1	5330.8	5766.6	5951.4	5578.3	5494.6	4650.9
22.5°	5024.0	5027.5	5020.5	4912.4	5055.4	5449.3	6104.8	6561.5	6153.6	6083.9	5030.9
25°	5400.5	5355.2	5320.3	5233.2	5215.7	5557.4	6446.4	7307.6	6843.9	6795.1	5442.3
27.5°	5798.0	5798.0	5693.4	5613.2	5501.6	5825.9	6760.2	8032.8	7677.2	7610.9	5801.5
30°	6230.3	6254.7	6240.7	6069.9	6000.2	6118.7	7081.0	8960.2	8632.4	8548.8	6394.1
32.5°	6868.3	6816.0	6875.3	6732.3	6526.6	6631.2	7586.5	9789.9	9873.6	9755.1	7171.6
35°	7712.0	7680.6	7642.3	7408.7	7164.7	7248.3	8301.2	10811.5	11432.1	11372.8	7956.1
37.5°	8468.6	8451.2	8419.8	8259.4	7977.0	8078.1	9113.6	11874.8	12952.2	12756.9	9064.8
40°	9263.5	9357.6	9256.5	9113.6	8855.6	9078.7	10068.9	12505.9	14231.7	13994.6	9912.0
42.5°	10340.8	10267.6	10312.9	10051.4	9912.0	10156.0	11027.6	13136.9	15225.3	14942.9	10811.5
45°	11487.9	11491.3	11369.3	11285.6	10923.0	11188.0	11616.8	13485.6	16016.7	15797.1	11491.3
47.5°	12223.5	12220.0	12352.5	12485.0	12111.9	11850.4	12017.8	13816.8	16424.7	16323.6	11738.9
50°	12108.4	12143.3	12314.1	12809.2	13004.5	12652.3	12394.3	13719.2	16609.4	16599.0	11951.5
52.5°	10532.6	10647.6	10933.5	11648.2	12631.4	13067.2	12788.3	13900.5	16700.1	16717.5	12268.8
55°	8018.8	8081.6	8625.5	9493.6	10581.4	12073.6	12631.4	14043.4	16769.8	16801.2	12652.3
56°	6955.5	6788.1	7572.6	8189.7	9490.1	11121.8	12234.0	13931.9	16728.0	16968.5	12844.1
57.5°	5250.6	5139.0	5773.6	6544.1	7795.7	9518.0	10999.7	13405.4	16445.6	16442.1	12568.6
60°	3193.6	3082.0	3570.1	4023.4	4724.1	5860.7	7433.1	10675.5	13904.0	14196.8	10176.9
62.5°	1900.1	1969.8	2451.0	2726.4	2953.0	3071.6	3845.6	6345.3	9277.4	9486.6	6314.0
65°	1265.6	1290.0	1652.6	2105.8	2206.9	1757.2	1565.4	2569.5	4023.4	3894.4	2604.4
67.5°	781.0	836.7	1108.7	1582.8	1753.7	1283.0	742.6	958.8	1108.7	1108.7	753.1
70°	474.2	502.0	739.1	1077.3	1202.8	826.3	540.4	540.4	533.4	523.0	449.8
72.5°	226.6	244.1	376.5	554.3	564.8	435.8	418.4	456.7	446.3	442.8	373.1
75°	97.6	104.6	132.5	174.3	198.7	184.8	254.5	327.7	338.2	327.7	268.5
77.5°	31.4	34.9	48.8	62.8	66.2	80.2	108.1	136.0	156.9	146.4	132.5
80°	3.5	7.0	13.9	31.4	48.8	62.8	80.2	90.6	101.1	101.1	94.1
82.5°	3.5	3.5	13.9	27.9	45.3	59.3	76.7	87.2	101.1	104.6	97.6
85°	0.0	3.5	10.5	24.4	38.4	38.4	34.9	34.9	24.4	24.4	24.4
87.5°	0.0	0.0	3.5	3.5	3.5	7.0	7.0	7.0	7.0	7.0	7.0
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°	3148.3	3148.3	3148.3	3148.3	3148.3	3148.3	3148.3	3148.3	3148.3	3148.3	3148.3
2.5°	3176.2	3169.2	3075.0	3015.8	2984.4	2921.6	2883.3	2855.4	2834.5	2810.1	2813.6
5°	3218.0	3193.6	3036.7	2928.6	2799.6	2729.9	2670.6	2621.8	2590.4	2583.5	2569.5
7.5°	3336.5	3207.5	2970.5	2775.2	2611.4	2541.6	2489.3	2457.9	2471.9	2440.5	2464.9
10°	3427.2	3235.4	2890.3	2607.9	2444.0	2391.7	2363.8	2388.2	2423.1	2409.1	2391.7
12.5°	3538.7	3263.3	2761.3	2447.5	2294.1	2255.7	2304.5	2349.9	2419.6	2447.5	2412.6
15°	3664.3	3294.7	2597.4	2262.7	2165.1	2196.5	2280.1	2360.3	2430.1	2464.9	2485.8
17.5°	3817.7	3284.2	2437.0	2116.3	2043.1	2133.7	2234.8	2308.0	2412.6	2464.9	2451.0
20°	3960.6	3249.4	2259.2	1969.8	1973.3	2057.0	2140.7	2259.2	2315.0	2384.7	2360.3
22.5°	4096.6	3186.6	2074.4	1868.7	1868.7	1997.7	2039.6	2116.3	2165.1	2199.9	2196.5
25°	4288.3	3068.1	1921.0	1771.1	1813.0	1896.6	1931.5	1955.9	1935.0	1962.9	1966.4
27.5°	4424.3	2946.0	1795.5	1684.0	1760.7	1823.4	1813.0	1799.0	1750.2	1711.8	1736.3
30°	4570.7	2803.1	1687.4	1624.7	1666.5	1722.3	1680.5	1638.6	1561.9	1499.2	1502.7
32.5°	4779.9	2736.9	1593.3	1555.0	1610.7	1617.7	1572.4	1509.6	1432.9	1373.7	1370.2
35°	5170.4	2695.0	1513.1	1509.6	1520.1	1523.6	1478.3	1401.6	1370.2	1321.4	1338.8
37.5°	5560.9	2674.1	1457.3	1443.4	1439.9	1443.4	1391.1	1317.9	1377.1	1373.7	1380.6
40°	6059.4	2768.2	1377.1	1359.7	1363.2	1363.2	1297.0	1276.0	1380.6	1391.1	1394.6
42.5°	6565.0	2886.8	1324.9	1269.1	1283.0	1283.0	1248.1	1223.7	1297.0	1227.2	1216.8
45°	7004.3	3061.1	1269.1	1178.4	1213.3	1230.7	1220.3	1178.4	1133.1	1014.6	1014.6
47.5°	7147.2	3214.5	1202.8	1091.3	1119.2	1195.9	1164.5	1077.3	997.1	899.5	892.5
50°	7398.2	3381.9	1150.5	990.2	1049.4	1143.6	1112.2	1025.0	934.4	864.6	868.1
52.5°	7656.2	3573.6	1052.9	871.6	944.8	1101.7	1101.7	1004.1	864.6	815.8	808.9
55°	8043.2	3566.6	878.6	714.7	843.7	1039.0	1056.4	899.5	774.0	735.6	735.6
56°	8099.0	3406.3	791.4	669.4	798.4	1021.5	1025.0	871.6	739.1	697.3	697.3
57.5°	7680.6	3075.0	693.8	613.6	742.6	990.2	993.6	847.2	711.2	652.0	645.0
60°	5909.5	2081.4	578.8	547.4	672.9	892.5	910.0	770.5	624.1	578.8	575.3
62.5°	3336.5	1154.0	509.0	495.1	578.8	760.0	812.3	672.9	529.9	505.5	512.5
65°	1523.6	634.5	428.8	400.9	467.2	585.7	655.5	554.3	435.8	407.9	407.9
67.5°	557.8	432.3	366.1	317.3	327.7	380.0	425.3	359.1	289.4	247.5	258.0
70°	397.5	362.6	320.8	275.4	254.5	247.5	244.1	202.2	142.9	111.6	118.5
72.5°	320.8	299.8	268.5	233.6	198.7	167.3	142.9	104.6	66.2	45.3	41.8
75°	230.1	219.6	195.2	167.3	139.5	118.5	97.6	66.2	34.9	17.4	17.4
77.5°	118.5	118.5	115.1	104.6	87.2	69.7	55.8	38.4	20.9	7.0	7.0
80°	90.6	97.6	101.1	90.6	80.2	62.8	45.3	27.9	13.9	3.5	3.5
82.5°	87.2	101.1	108.1	94.1	80.2	59.3	45.3	27.9	13.9	3.5	3.5
85°	20.9	20.9	31.4	34.9	45.3	48.8	38.4	24.4	10.5	3.5	3.5
87.5°	7.0	7.0	7.0	7.0	7.0	7.0	3.5	3.5	3.5	3.5	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)