

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: P651618

Luminaire Tested: **GALN-SA9D-840-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651618
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-840-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34491.9 lumens
Efficiency: N/A
Efficacy: 62.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

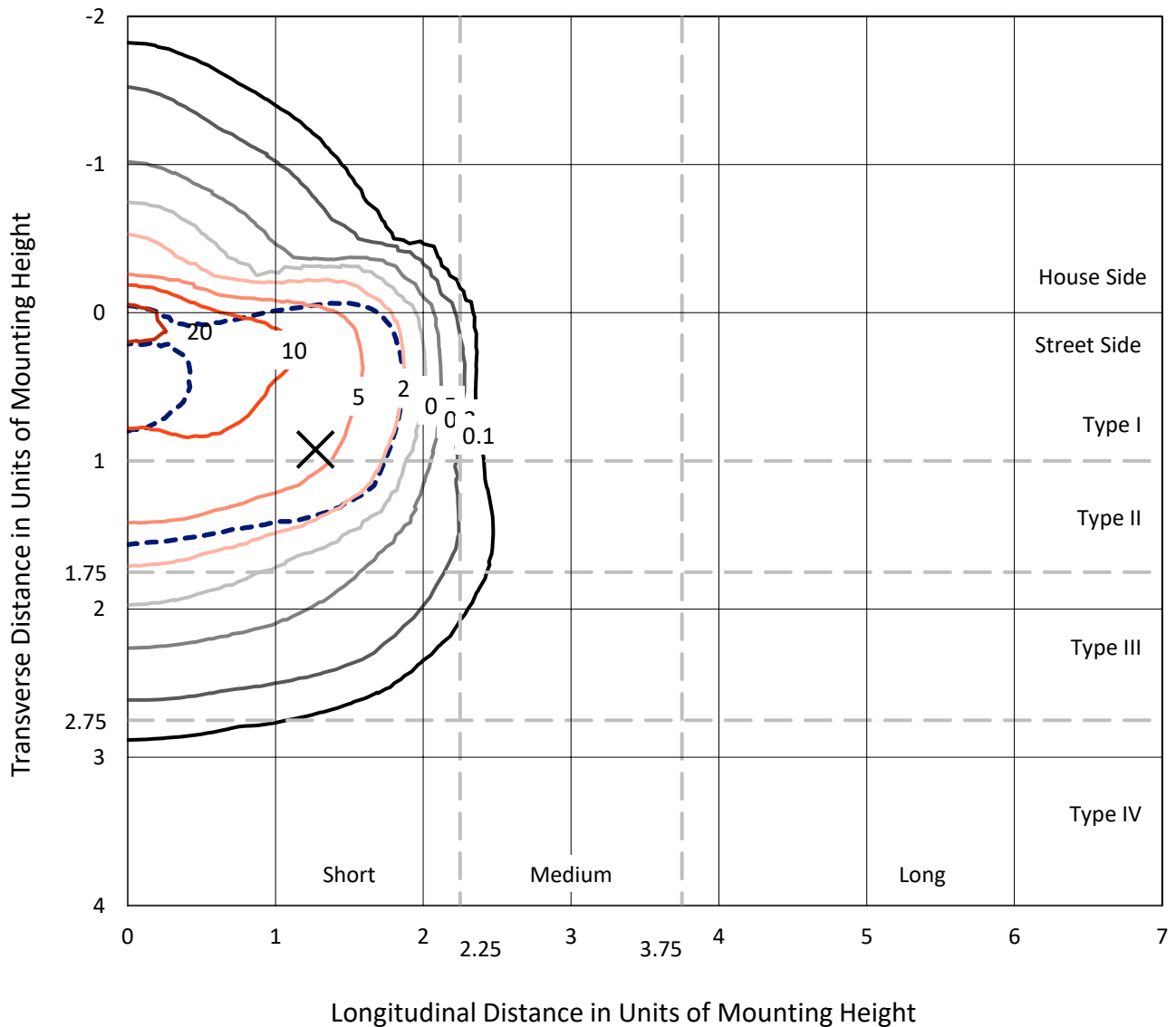
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

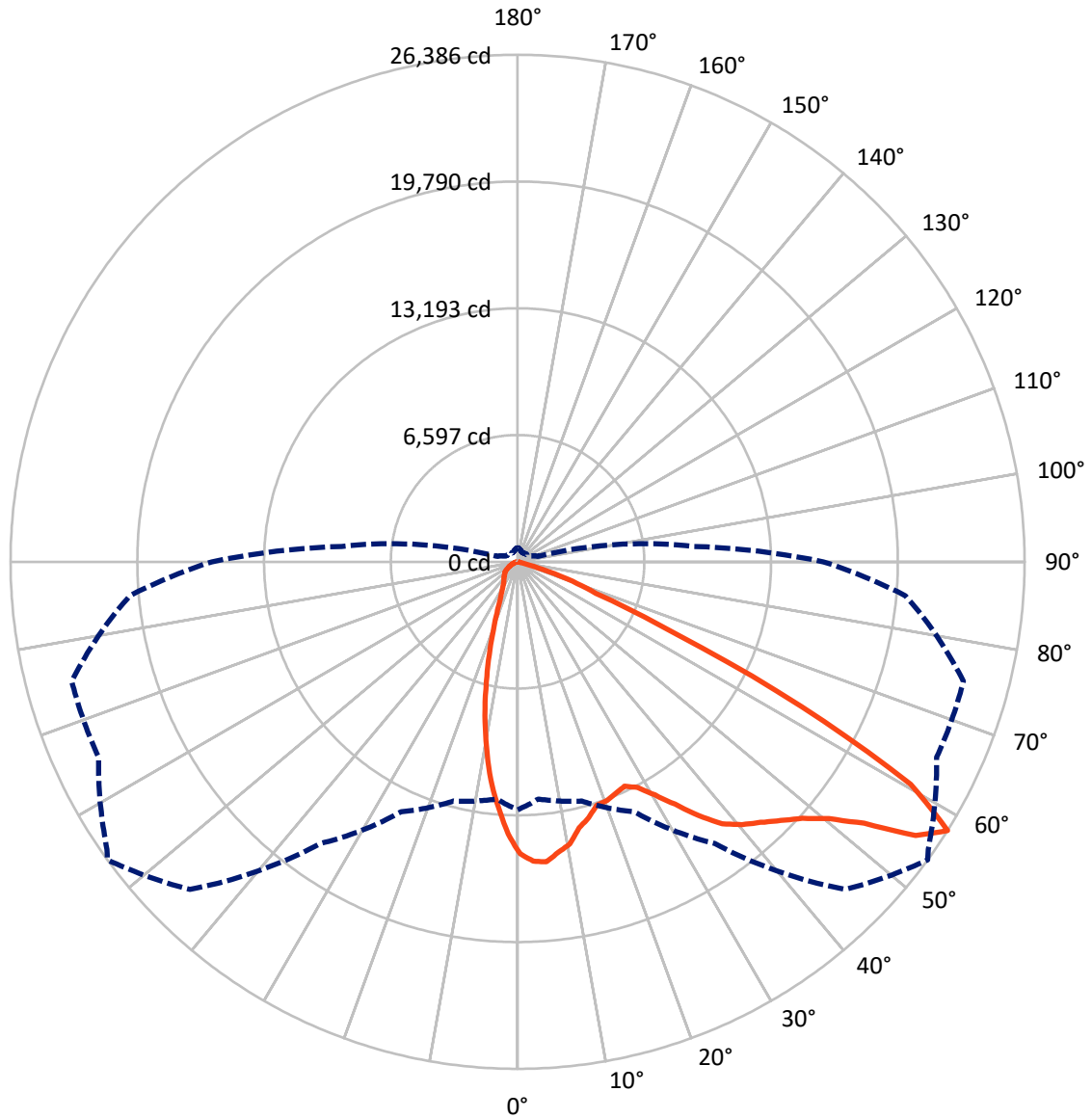
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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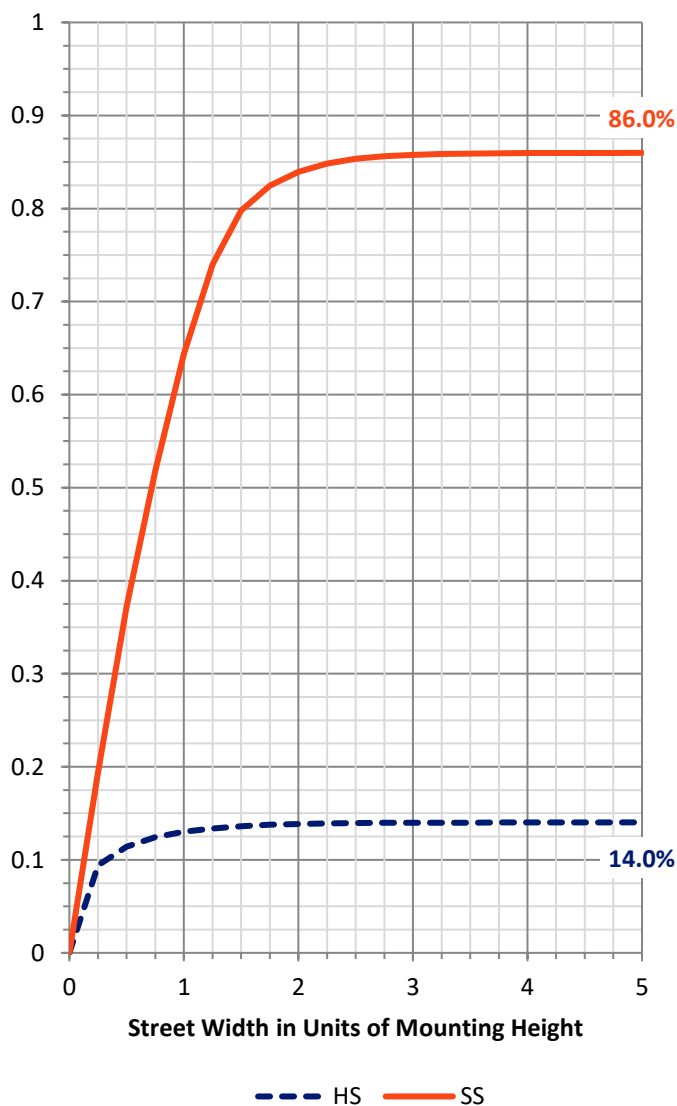
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4874.3	0.0	4874.3
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	29617.6	0.0	29617.6
	% Fixture	85.9	0.0	85.9
Total	Lumens	34491.9	0.0	34491.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1271.5	3.7
10°-20°	2714.6	7.9
20°-30°	3597.4	10.4
30°-40°	5228.0	15.2
40°-50°	7752.4	22.5
50°-60°	9694.0	28.1
60°-70°	3823.8	11.1
70°-80°	380.7	1.1
80°-90°	29.6	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°	34491.9	100.0
0°-180°	34491.9	100.0

Coefficient of Utilization

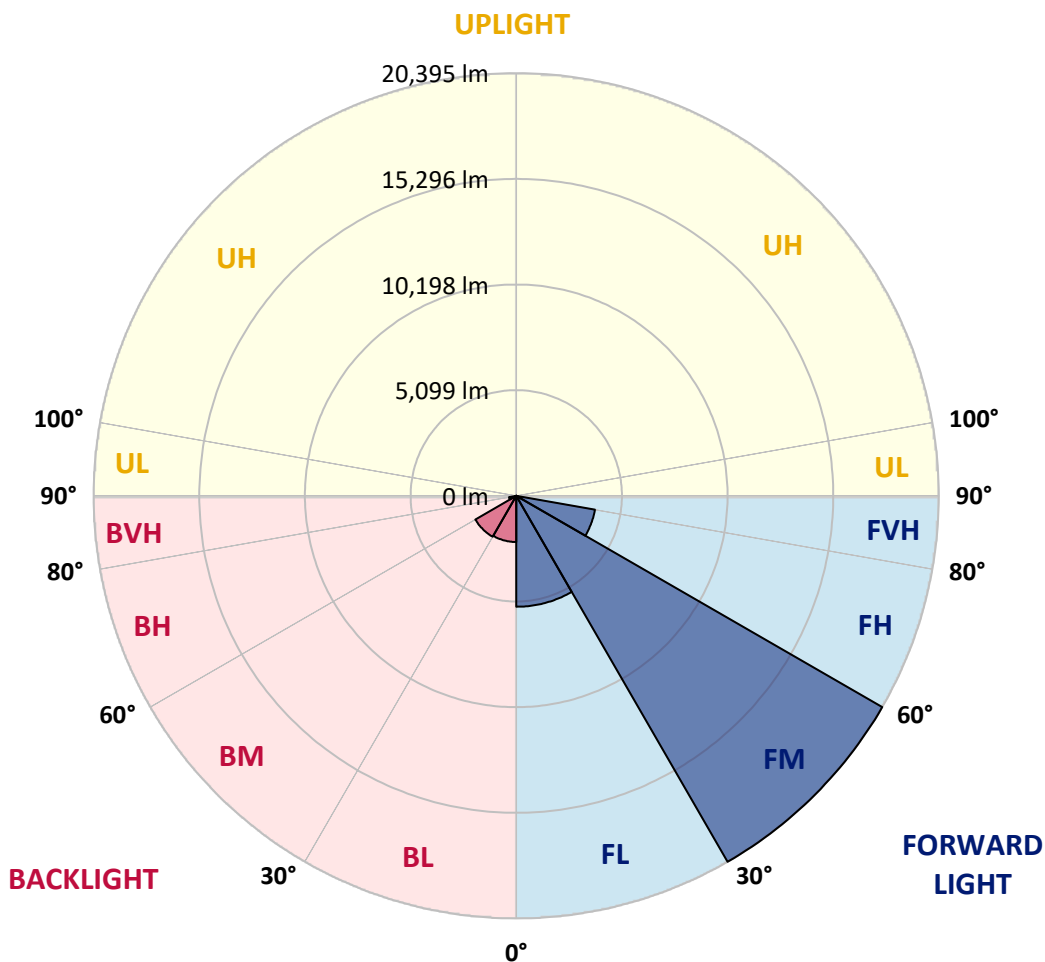


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5354.2	15.5			
FM (30°-60°)	20395.0	59.1			
FH (60°-80°)	3855.0	11.2			G2/5000
FVH (80°-90°)	13.4	0.0			G1/100
BL (0°-30°)	2229.3	6.5	B3/2500		
BM (30°-60°)	2279.3	6.6	B2/2500		
BH (60°-80°)	349.5	1.0	B1/500		G1/500
BVH (80°-90°)	16.2	0.0			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°	54°	55°	65°	75°	85°
0°	15194.2	15194.2	15194.2	15194.2	15194.2	15194.2	15194.2	15194.2	15194.2	15194.2	15194.2
2.5°	16079.2	15912.5	15925.3	15867.6	15790.6	15848.4	15598.2	15656.0	15649.5	15309.6	15085.1
5°	15675.2	15854.8	15668.8	15822.7	15675.2	15835.5	15681.6	15566.2	15380.1	15130.0	14713.1
7.5°	14988.9	14815.7	14867.0	15059.5	15091.6	15450.7	15258.3	15405.8	15328.8	14835.0	14264.2
10°	13610.0	13571.5	13828.1	14084.6	14398.8	14783.7	14931.2	14847.9	14790.1	14604.1	13840.8
12.5°	12551.7	12660.8	12654.4	13077.6	13610.0	13828.1	14212.8	14200.0	14520.7	14174.4	13443.2
15°	11544.7	11602.4	11871.8	12134.8	12724.8	13347.0	13821.6	13885.8	14270.6	14026.9	13135.3
17.5°	10929.0	10845.6	11057.3	11371.6	11974.5	12789.0	13315.0	13468.9	13994.8	13943.4	12782.6
20°	10319.7	10319.7	10492.9	10864.9	11416.5	12333.6	13270.1	13225.1	13994.8	13847.2	12404.2
22.5°	10114.5	10217.1	10262.0	10544.2	11198.4	11987.3	13077.6	13161.0	14103.8	13802.4	12237.4
25°	10396.7	10262.0	10274.8	10499.3	11115.0	11820.5	12936.5	13122.5	14302.6	14026.9	12102.7
27.5°	10441.6	10576.2	10614.8	10768.7	11179.2	11871.8	13289.3	13667.7	14796.5	14552.7	12141.2
30°	10832.8	10967.5	10961.1	11224.1	11506.2	12288.8	14078.2	14155.1	15816.3	15213.4	12378.5
32.5°	11307.4	11448.5	11493.4	11801.2	12025.8	13052.0	15040.2	15239.1	16797.6	16252.4	13000.7
35°	11897.5	11846.2	12051.4	12359.3	12840.3	14168.0	16214.0	16547.4	17855.9	17599.4	13642.0
37.5°	12635.1	12570.9	12769.7	13270.1	13924.3	15489.2	17297.9	17515.9	18625.5	18850.0	14828.6
40°	13154.6	13180.2	13783.1	14456.6	15149.3	16746.3	17984.1	18195.8	19164.3	20017.3	15726.5
42.5°	14020.5	14180.8	14905.5	15726.5	16451.2	17689.1	18542.1	18747.4	19414.4	20953.7	16938.7
45°	15277.5	15207.0	16008.7	16925.9	17727.6	18670.5	19202.7	19132.2	19561.9	21883.7	17702.0
47.5°	16893.8	16906.6	17439.0	18221.4	19055.2	19523.5	19940.4	19690.2	19869.8	22865.0	18721.8
50°	17997.0	18093.2	18522.9	19324.6	19741.5	20459.8	20992.2	20838.3	20780.5	23455.1	19363.1
52.5°	18279.1	18567.8	18798.7	19799.2	20774.1	21909.3	22589.2	22916.3	21890.1	23653.9	20177.6
55°	16149.8	16406.4	17220.9	18593.4	21165.4	24205.5	25141.9	25148.3	23339.6	24539.0	20748.5
57.5°	12910.9	12391.4	12891.6	14347.5	17894.4	24109.3	26386.1	26084.7	24064.4	24019.5	20254.6
60°	8928.0	8799.6	8831.8	9408.9	12384.9	19177.1	23512.8	23904.0	22159.5	20819.0	16034.3
62.5°	7074.3	6965.3	6824.2	6760.1	7690.1	11948.8	16585.9	17137.6	15495.6	13500.9	9505.2
65°	5541.5	5477.3	5496.6	5753.1	5746.7	6779.3	9069.0	8844.5	7080.8	5233.6	2988.8
67.5°	3739.3	3835.4	3912.4	4688.4	5086.1	4720.5	4380.6	4252.3	2302.6	968.5	660.6
70°	2103.7	2116.5	2199.9	2931.1	3861.1	3662.2	3020.9	3020.9	1148.0	352.7	378.4
72.5°	1148.0	1109.6	1032.6	1263.5	1718.9	1744.6	1346.9	1173.7	339.9	230.9	211.7
75°	558.0	551.6	474.6	391.2	372.0	307.9	237.3	218.1	153.9	147.5	128.3
77.5°	115.5	109.0	57.7	57.7	64.2	70.6	89.8	89.8	109.0	109.0	89.8
80°	0.0	0.0	6.4	25.7	44.9	64.2	77.0	77.0	89.8	89.8	70.6
82.5°	0.0	0.0	6.4	19.3	38.5	57.7	70.6	77.0	89.8	96.2	77.0
85°	0.0	0.0	0.0	12.9	32.0	44.9	38.5	38.5	32.0	25.7	12.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	15194.2	15194.2	15194.2	15194.2	15194.2	15194.2	15194.2	15194.2	15194.2	15194.2	15194.2
2.5°	14969.7	14956.8	14661.8	14495.1	14193.6	13930.7	13719.0	13565.1	13565.1	13468.9	13379.0
5°	14546.4	14437.4	13808.8	13404.7	12833.9	12410.6	12122.0	11897.5	11544.7	11641.0	11262.5
7.5°	14020.5	13744.6	12910.9	12295.2	11506.2	10903.4	10287.6	9742.5	9216.5	8979.3	9107.5
10°	13456.0	12975.0	11852.6	10877.7	9896.4	8793.2	8074.9	7202.7	6663.9	6631.8	6490.7
12.5°	12859.6	12314.4	10948.2	9601.4	8312.2	6984.6	5887.8	5073.2	4707.7	4303.6	4380.6
15°	12410.6	11602.4	9941.3	8318.7	6606.1	5265.7	4162.5	3534.0	3187.6	3091.4	3059.4
17.5°	11923.1	11057.3	8915.1	6952.5	5182.3	3790.6	2995.2	2693.8	2559.1	2559.1	2539.8
20°	11416.5	10441.6	7895.3	5682.6	3886.8	2828.5	2398.7	2302.6	2296.1	2289.7	2289.7
22.5°	11083.0	9736.1	6971.7	4515.2	2931.1	2264.1	2084.5	2046.0	2071.6	2148.6	2148.6
25°	10730.2	9056.2	5951.9	3482.7	2270.4	1943.4	1840.8	1866.4	1930.5	2001.1	1975.4
27.5°	10371.0	8613.7	4989.9	2732.2	1860.0	1699.7	1661.1	1718.9	1789.4	1853.6	1834.3
30°	10287.6	8139.0	4079.1	2071.6	1597.1	1481.6	1507.2	1558.5	1629.1	1654.8	1680.4
32.5°	10416.0	7767.1	3341.5	1699.7	1391.8	1359.7	1359.7	1385.4	1430.3	1488.0	1468.7
35°	10781.5	7555.4	2642.4	1475.2	1276.3	1244.3	1237.9	1263.5	1289.2	1308.4	1289.2
37.5°	11339.5	7388.6	2161.5	1308.4	1199.4	1148.0	1135.3	1128.8	1154.4	1160.9	1173.7
40°	12051.4	7478.4	1834.3	1205.8	1122.4	1064.7	1026.2	1026.2	1026.2	1045.4	1051.8
42.5°	12821.0	7600.3	1584.2	1148.0	1051.8	981.3	942.8	930.0	942.8	968.5	962.0
45°	13629.2	7837.6	1423.8	1058.2	987.8	897.9	846.6	833.8	865.9	917.2	910.7
47.5°	14386.1	8177.5	1302.0	1000.5	923.6	840.2	776.1	763.2	821.0	891.5	897.9
50°	15142.9	8767.6	1257.1	955.6	878.7	782.5	724.8	711.9	776.1	865.9	885.1
52.5°	16015.1	9402.5	1225.0	897.9	827.4	737.6	673.5	660.6	731.2	846.6	853.0
55°	16585.9	9941.3	1199.4	795.3	731.2	667.0	615.7	609.3	686.3	788.9	814.5
57.5°	15919.0	9190.9	1109.6	692.6	622.2	590.0	545.1	545.1	609.3	705.5	724.8
60°	12070.7	6048.1	788.9	558.0	526.0	506.7	487.4	487.4	538.7	609.3	615.7
62.5°	7067.9	3258.2	506.7	448.9	448.9	429.8	397.6	397.6	448.9	487.4	493.8
65°	2097.3	1045.4	410.5	384.8	378.4	346.3	314.3	307.9	346.3	365.6	359.2
67.5°	602.9	481.1	339.9	320.7	314.3	263.0	243.7	237.3	243.7	230.9	224.5
70°	359.2	327.1	263.0	269.4	237.3	192.4	173.2	166.8	153.9	134.7	121.9
72.5°	198.8	198.8	192.4	205.2	166.8	128.3	109.0	89.8	70.6	57.7	51.3
75°	121.9	128.3	134.7	141.1	109.0	83.3	70.6	44.9	25.7	12.9	12.9
77.5°	83.3	89.8	96.2	102.6	89.8	77.0	57.7	32.0	6.4	0.0	0.0
80°	64.2	70.6	83.3	89.8	96.2	102.6	77.0	32.0	6.4	0.0	0.0
82.5°	70.6	77.0	96.2	89.8	89.8	89.8	70.6	32.0	6.4	0.0	0.0
85°	12.9	19.3	32.0	32.0	44.9	57.7	44.9	12.9	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)