

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: P529579

Luminaire Tested: **GALN-SA4D-730-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529579
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-730-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20791 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

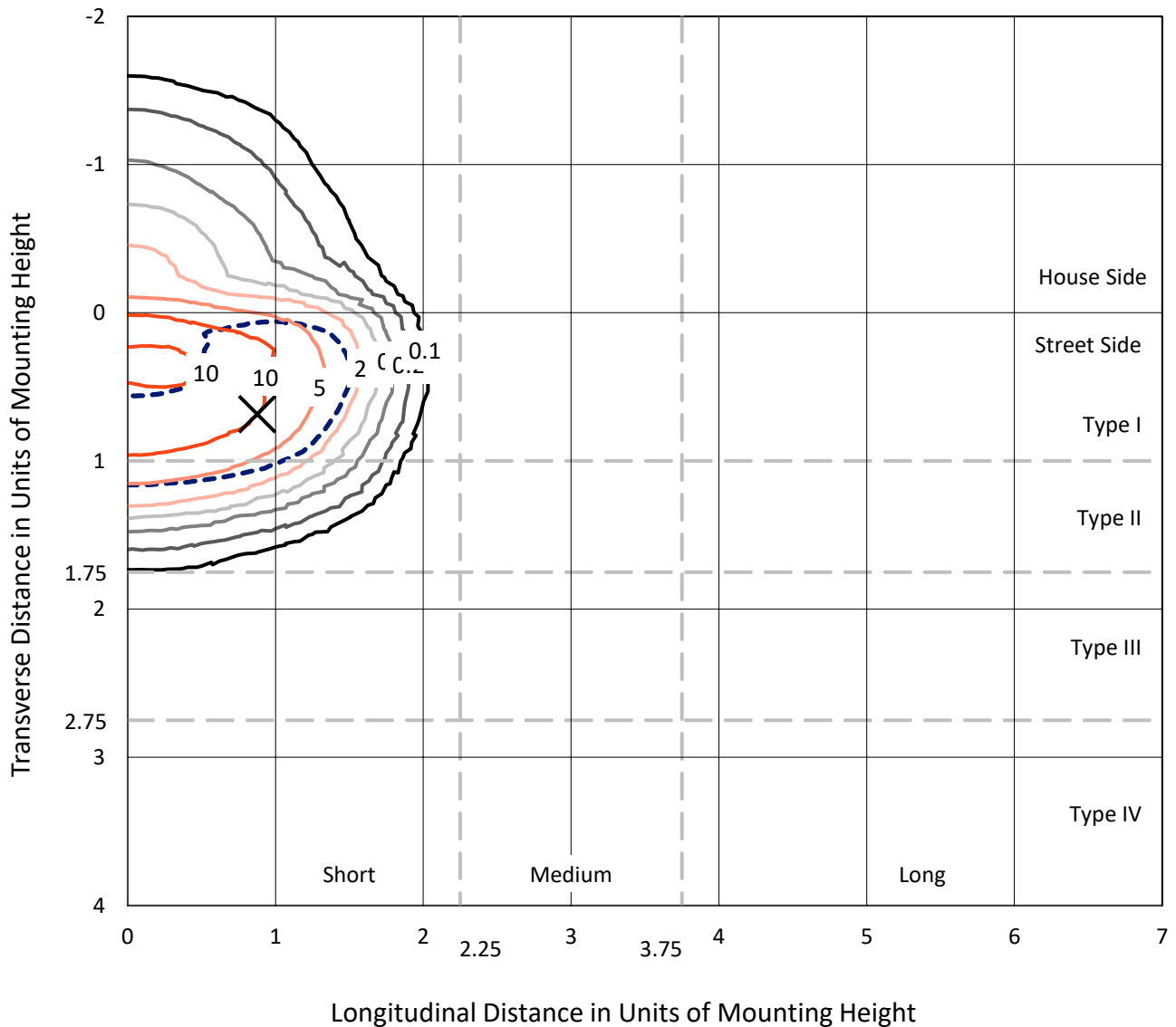
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

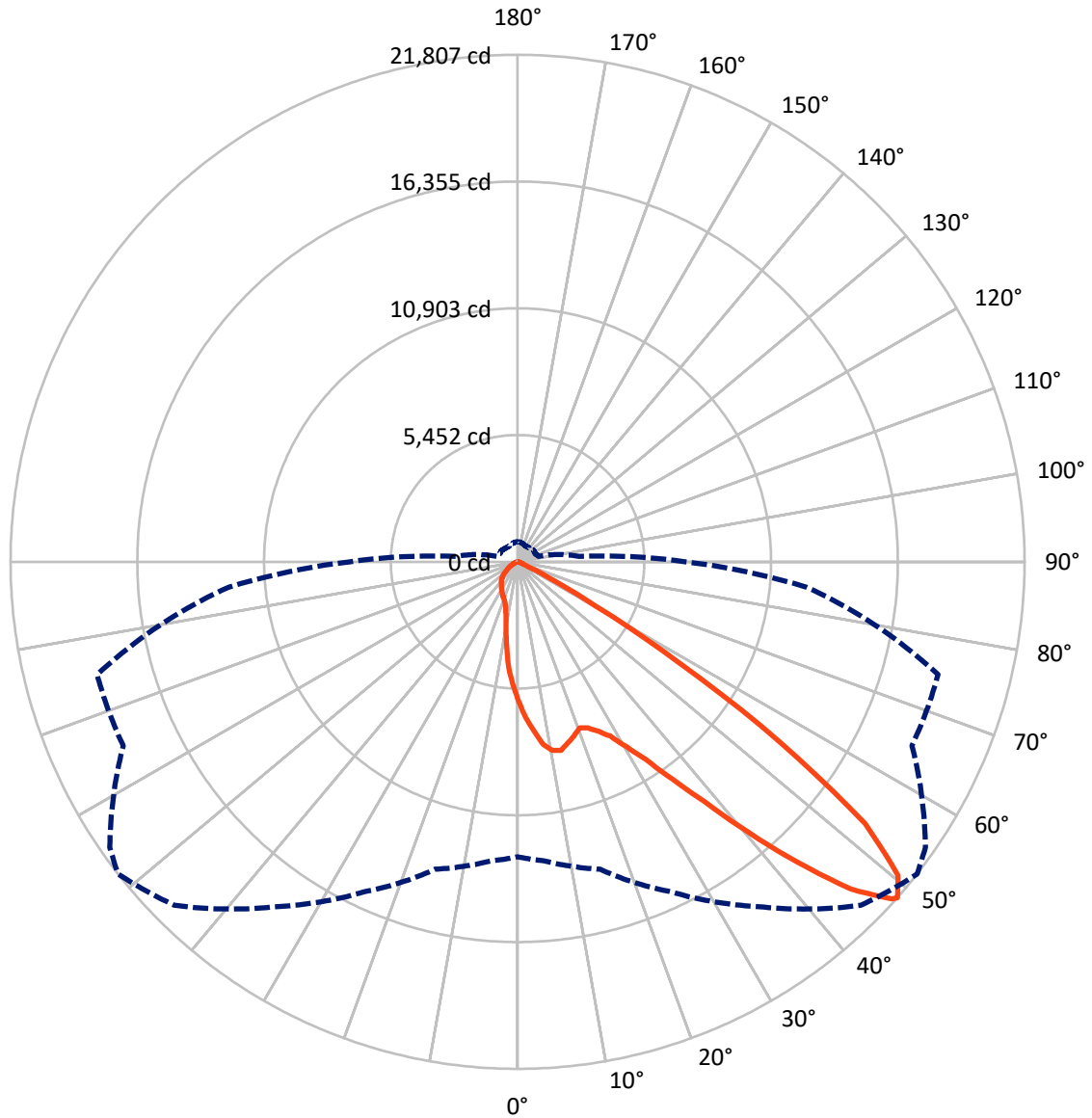
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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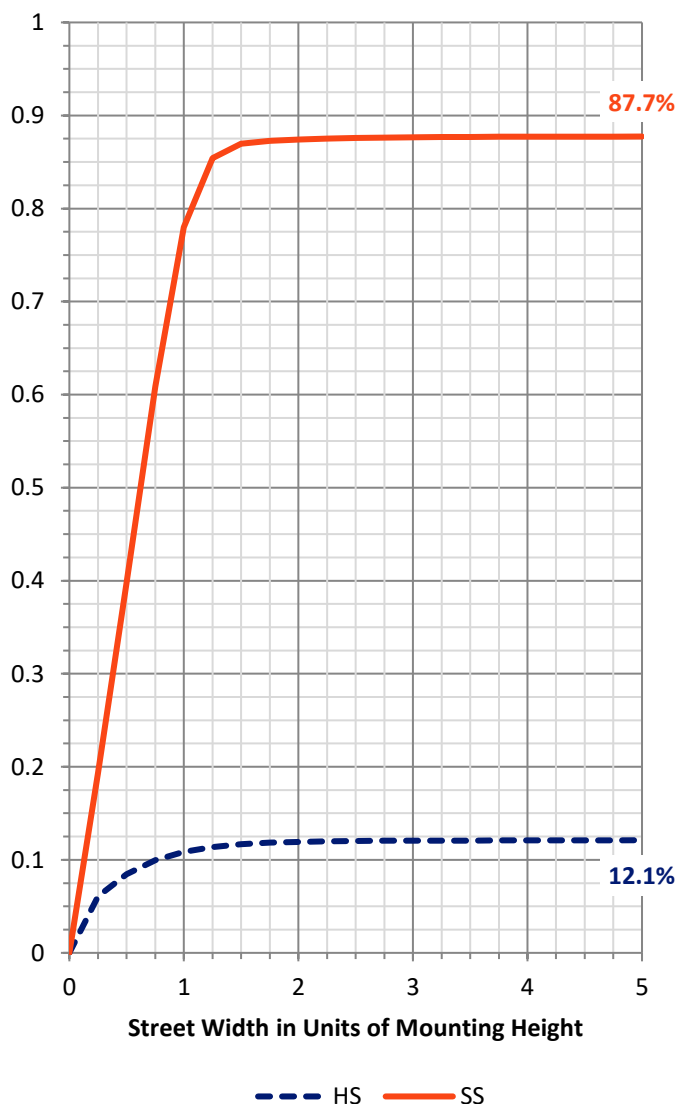
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2531.5	0.0	2531.5
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	18259.5	0.0	18259.5
	% Fixture	87.8	0.0	87.8
Total	Lumens	20791.0	0.0	20791.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	549.5	2.6
10°-20°	1436.2	6.9
20°-30°	2452.1	11.8
30°-40°	4515.6	21.7
40°-50°	7012.7	33.7
50°-60°	4220.4	20.3
60°-70°	488.1	2.3
70°-80°	94.5	0.5
80°-90°	21.9	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°	20791.0	100.0
0°-180°	20791.0	100.0

Coefficient of Utilization



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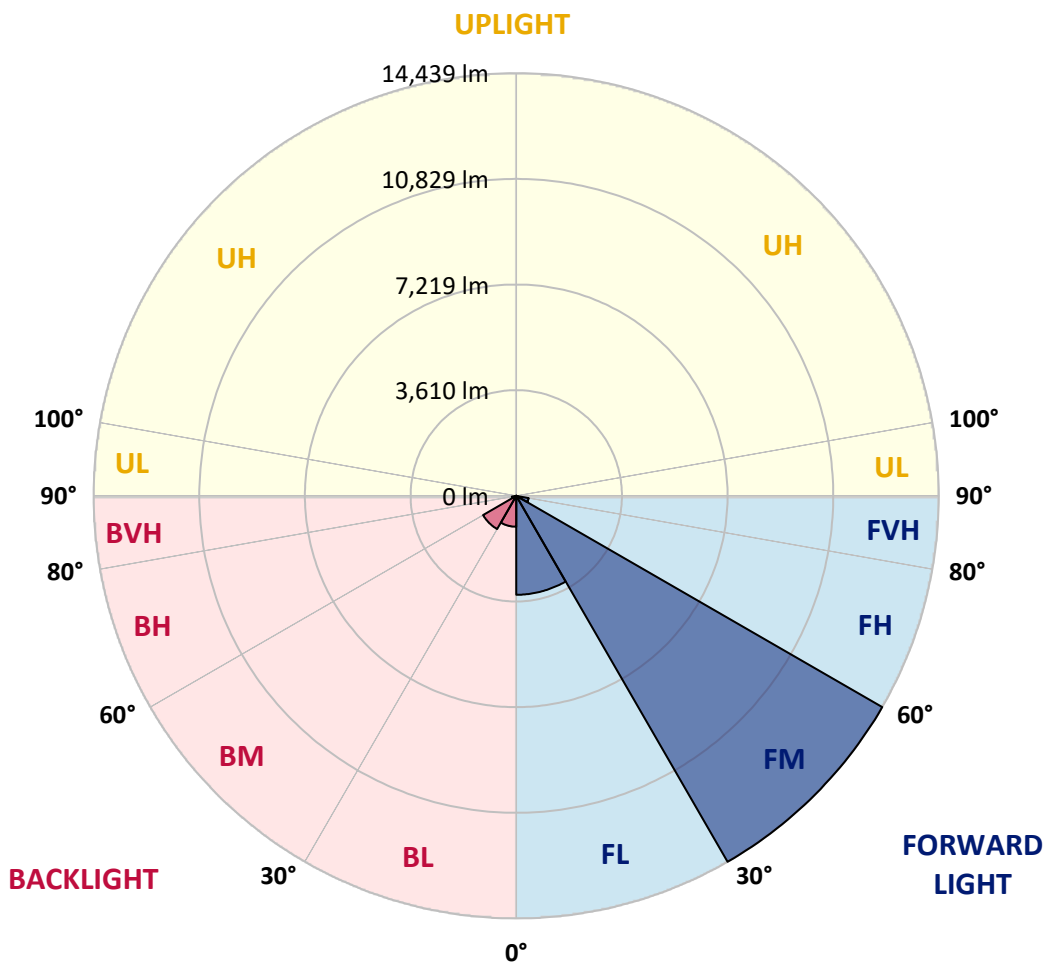
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3380.3	16.3			
FM (30°-60°)	14438.9	69.4			
FH (60°-80°)	429.8	2.1			G0/660
FVH (80°-90°)	10.4	0.1			G1/100
BL (0°-30°)	1057.5	5.1	B3/2500		
BM (30°-60°)	1309.7	6.3	B2/2500		
BH (60°-80°)	152.8	0.7	B1/500		G1/500
BVH (80°-90°)	11.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	6004.1	6004.1	6004.1	6004.1	6004.1	6004.1	6004.1	6004.1	6004.1	6004.1	6004.1
2.5°	7277.0	7110.4	7125.5	7016.4	6952.7	6849.7	6710.3	6683.0	6531.5	6325.4	6116.2
5°	7931.7	7892.3	7943.8	7786.2	7792.3	7622.6	7295.2	7301.3	6952.7	6616.3	6292.0
7.5°	7974.1	7883.2	7934.7	8074.2	8156.0	8125.7	7940.8	7780.2	7449.8	6955.8	6483.0
10°	7140.7	7313.4	7368.0	7598.3	7925.6	8271.2	8249.9	8259.0	7983.2	7337.7	6646.6
12.5°	6640.6	6525.4	6710.3	6849.7	7343.7	8013.5	8319.7	8386.3	8407.6	7707.4	6810.3
15°	6413.3	6413.3	6443.6	6483.0	6840.6	7458.9	8083.3	8277.2	8734.9	8192.4	7067.9
17.5°	6555.7	6549.6	6592.1	6510.2	6643.6	7119.4	7865.0	8086.3	9101.6	8668.2	7271.0
20°	6989.1	7010.3	6983.1	6746.7	6755.7	7113.4	7622.6	7971.1	9350.1	9080.4	7540.7
22.5°	7592.3	7604.4	7449.8	7192.2	7116.4	7292.2	7762.0	8028.7	9550.2	9574.4	7622.6
25°	8289.3	8240.9	8210.5	7846.8	7616.5	7768.0	8077.2	8231.8	9674.4	9998.7	7855.9
27.5°	9256.2	9159.2	8974.3	8650.0	8480.3	8265.1	8486.4	8740.9	10029.1	10592.8	8110.5
30°	10683.7	10598.9	10238.2	9819.9	9374.4	9162.2	9231.9	9371.4	10668.6	11280.8	8447.0
32.5°	12832.6	12653.8	12132.5	11335.3	10729.2	10144.2	10126.0	10274.6	11241.4	12232.5	8847.0
35°	15199.7	15145.1	14378.3	13557.0	12384.0	11480.8	11496.0	11574.8	12338.6	13481.2	9371.4
37.5°	16772.7	17072.7	16584.8	15702.8	14717.8	13426.6	13099.3	13126.6	13844.9	14960.2	10317.0
40°	17988.0	17733.4	17791.0	17584.9	16912.1	16033.1	15308.8	15166.3	15587.6	16596.9	11256.5
42.5°	17457.6	17469.8	17824.4	18312.3	18479.0	18415.4	17675.9	17406.1	17078.8	17936.5	12150.6
45°	15960.4	16272.6	16733.3	18024.4	19157.9	20221.8	20076.3	19627.7	18109.3	18997.3	12665.9
47.5°	13572.1	13560.0	14314.7	15993.7	18512.4	21003.7	21664.4	21349.2	18839.7	18879.1	12559.8
48°	12690.1	12908.4	13687.3	15663.4	18103.2	20888.6	21806.9	21409.9	18715.4	18721.5	12468.9
50°	9380.5	9341.1	10310.9	12735.6	16169.5	19627.7	21206.8	21515.9	18712.4	17924.4	11832.4
52.5°	4955.4	5125.2	5831.3	8007.5	11432.3	16063.5	18706.3	19188.3	18051.7	16621.1	10917.1
55°	2106.4	1903.4	2445.9	3615.8	6431.4	10732.2	13723.6	14796.6	15263.3	14708.7	9550.2
57.5°	751.6	821.4	945.6	1360.8	2703.5	5873.8	8183.3	9016.8	10574.6	10792.8	6507.2
60°	481.9	491.0	530.4	624.4	1015.3	2264.0	3882.5	4546.3	5252.4	5422.2	3036.9
62.5°	372.8	375.8	394.0	409.2	481.9	878.9	1457.8	1727.6	1794.3	1542.7	797.1
65°	312.2	315.2	321.3	321.3	342.5	412.2	509.2	560.7	545.6	539.5	451.6
67.5°	239.4	245.5	257.6	257.6	269.7	251.6	281.9	300.1	339.5	412.2	384.9
70°	187.9	190.9	200.0	206.1	206.1	181.9	203.1	221.3	248.5	306.1	303.1
72.5°	145.5	151.5	157.6	157.6	148.5	124.3	145.5	160.6	178.8	212.2	206.1
75°	112.1	112.1	115.2	94.0	72.7	63.6	87.9	106.1	133.4	139.4	115.2
77.5°	30.3	33.3	30.3	27.3	30.3	45.5	57.6	66.7	84.9	84.9	75.8
80°	0.0	3.0	9.1	18.2	30.3	42.4	51.5	57.6	66.7	72.7	69.7
82.5°	0.0	3.0	9.1	18.2	27.3	33.3	45.5	48.5	54.6	63.6	63.6
85°	0.0	3.0	6.1	12.1	18.2	21.2	21.2	18.2	18.2	15.2	12.1
87.5°	0.0	0.0	3.0	6.1	6.1	9.1	9.1	9.1	9.1	9.1	9.1
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°	6004.1	6004.1	6004.1	6004.1	6004.1	6004.1	6004.1	6004.1	6004.1	6004.1	6004.1
2.5°	6034.4	5940.4	5798.0	5573.7	5358.5	5219.1	5085.8	4937.2	4855.4	4849.3	4803.9
5°	6107.1	5895.0	5555.5	5170.6	4758.4	4403.8	4046.2	3812.8	3603.7	3488.5	3467.3
7.5°	6146.5	5870.7	5322.2	4676.6	3973.4	3394.5	2994.5	2700.5	2585.3	2500.4	2497.4
10°	6228.4	5828.3	4973.6	4021.9	3152.1	2567.1	2291.3	2158.0	2094.3	2070.1	2033.7
12.5°	6289.0	5749.5	4616.0	3349.1	2491.4	2127.7	2006.4	1976.1	1979.1	1991.3	1976.1
15°	6373.9	5679.8	4134.1	2749.0	2091.3	1915.5	1915.5	1921.6	1964.0	1970.0	1967.0
17.5°	6367.8	5543.4	3637.0	2264.0	1848.8	1824.6	1833.7	1891.2	1918.5	1927.6	1906.4
20°	6440.5	5416.1	3124.8	1933.7	1712.4	1748.8	1809.4	1824.6	1857.9	1864.0	1839.7
22.5°	6419.3	5097.9	2649.0	1673.0	1609.4	1679.1	1739.7	1757.9	1748.8	1730.6	1727.6
25°	6379.9	4825.1	2212.5	1500.3	1533.6	1609.4	1667.0	1633.6	1615.4	1618.5	1621.5
27.5°	6310.2	4479.6	1851.8	1379.0	1430.6	1542.7	1539.7	1527.5	1545.7	1530.6	1545.7
30°	6298.1	4134.1	1554.8	1269.9	1354.8	1436.6	1442.7	1463.9	1485.1	1457.8	1485.1
32.5°	6316.3	3755.2	1342.7	1203.2	1309.3	1312.4	1379.0	1400.2	1385.1	1324.5	1330.5
35°	6455.7	3464.3	1188.1	1166.9	1236.6	1239.6	1303.3	1276.0	1209.3	1172.9	1194.2
37.5°	6749.7	3221.8	1115.3	1133.5	1139.6	1179.0	1182.0	1127.5	1133.5	1130.5	1142.6
40°	7125.5	3036.9	1063.8	1103.2	1097.2	1124.4	1015.3	1045.6	1072.9	1082.0	1088.1
42.5°	7383.1	2903.5	1030.5	1054.7	1042.6	994.1	933.5	963.8	985.0	1018.4	1024.4
45°	7498.3	2797.5	991.1	969.9	969.9	882.0	857.7	863.8	912.3	948.7	942.6
47.5°	7310.4	2694.4	921.4	857.7	878.9	806.2	778.9	778.9	830.5	875.9	866.8
48°	7237.6	2652.0	924.4	833.5	848.6	794.1	766.8	760.7	818.3	860.8	860.8
50°	6877.0	2494.4	845.6	766.8	736.5	730.4	712.2	718.3	754.7	794.1	794.1
52.5°	6173.8	2154.9	715.3	657.7	603.1	639.5	648.6	636.5	654.7	691.0	688.0
55°	5152.4	1654.8	572.8	545.6	503.1	542.5	560.7	545.6	527.4	554.6	554.6
57.5°	3300.6	891.1	457.7	463.7	421.3	460.7	475.8	439.5	406.1	427.3	424.3
60°	1488.1	533.4	375.8	366.7	339.5	384.9	409.2	366.7	321.3	336.4	351.6
62.5°	557.7	378.9	284.9	278.8	272.8	315.2	327.3	294.0	248.5	257.6	260.7
65°	409.2	333.4	227.3	206.1	218.2	248.5	242.5	209.1	178.8	178.8	184.9
67.5°	348.5	291.0	184.9	160.6	160.6	163.7	151.5	133.4	124.3	130.3	136.4
70°	272.8	230.3	145.5	124.3	112.1	100.0	87.9	84.9	75.8	84.9	81.8
72.5°	175.8	154.6	112.1	94.0	84.9	69.7	57.6	54.6	45.5	42.4	42.4
75°	94.0	94.0	87.9	75.8	66.7	54.6	45.5	36.4	24.2	18.2	18.2
77.5°	66.7	72.7	78.8	72.7	60.6	45.5	36.4	24.2	12.1	6.1	6.1
80°	63.6	72.7	78.8	69.7	60.6	45.5	33.3	18.2	9.1	3.0	3.0
82.5°	57.6	66.7	72.7	63.6	54.6	39.4	30.3	18.2	9.1	3.0	3.0
85°	12.1	15.2	18.2	18.2	21.2	27.3	21.2	15.2	6.1	3.0	3.0
87.5°	9.1	9.1	9.1	9.1	9.1	9.1	6.1	6.1	3.0	3.0	3.0
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)