

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: P529164

Luminaire Tested: **GALN-SA4B-740-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529164
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-740-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20312 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

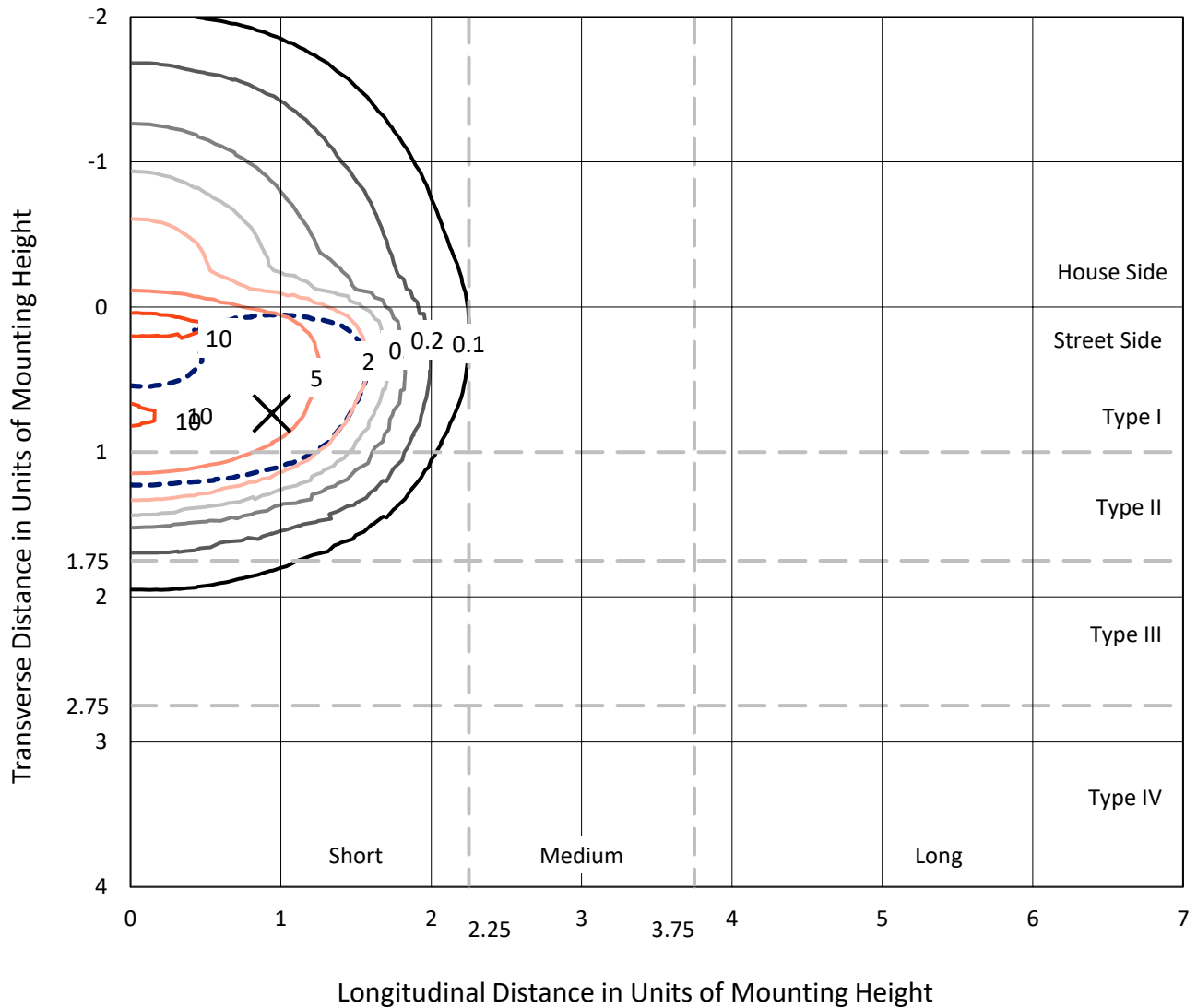
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

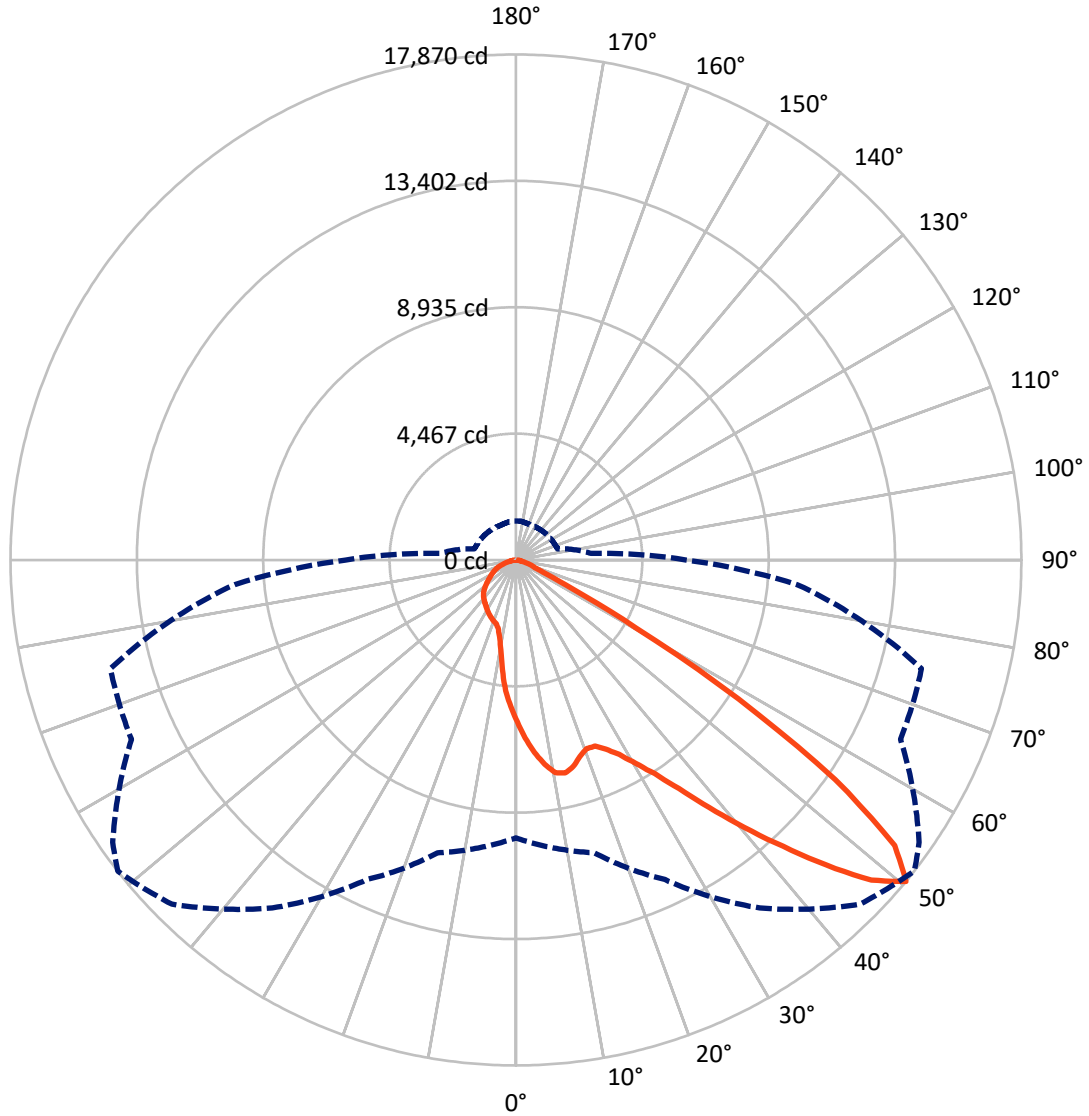
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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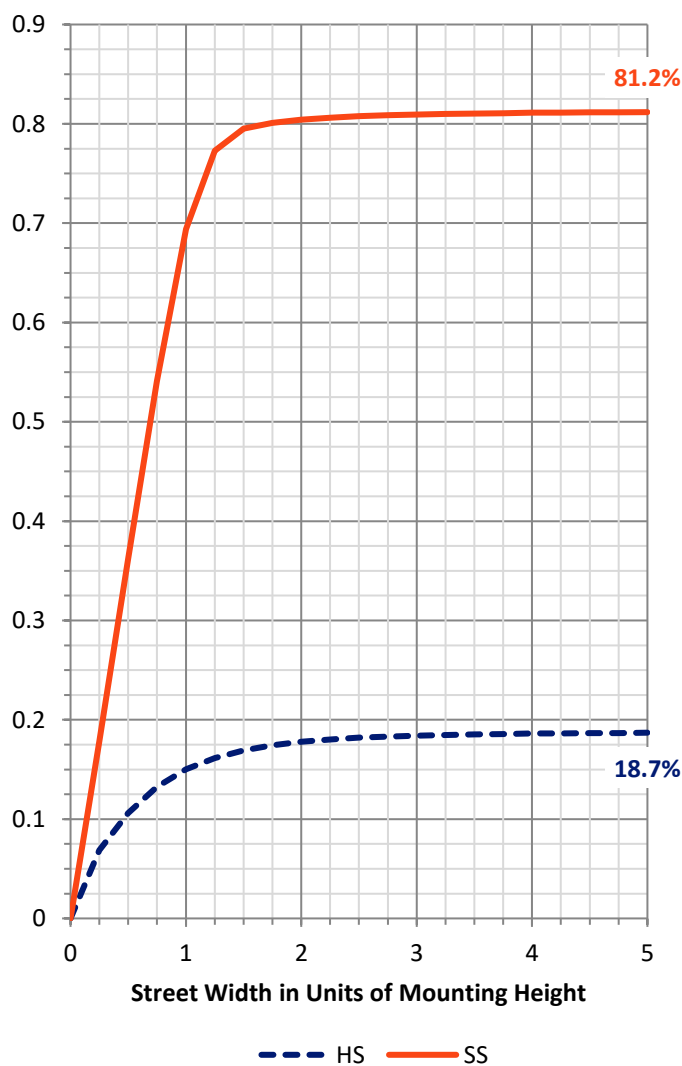
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3818.2	0.0	3818.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	16493.8	0.0	16493.8
	% Fixture	81.2	0.0	81.2
Total	Lumens	20312.0	0.0	20312.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	527.7	2.6
10°-20°	1414.4	7.0
20°-30°	2382.6	11.7
30°-40°	3998.2	19.7
40°-50°	6116.2	30.1
50°-60°	4459.2	22.0
60°-70°	992.4	4.9
70°-80°	357.9	1.8
80°-90°	63.4	0.3
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°	20312.0	100.0
0°-180°	20312.0	100.0

Coefficient of Utilization



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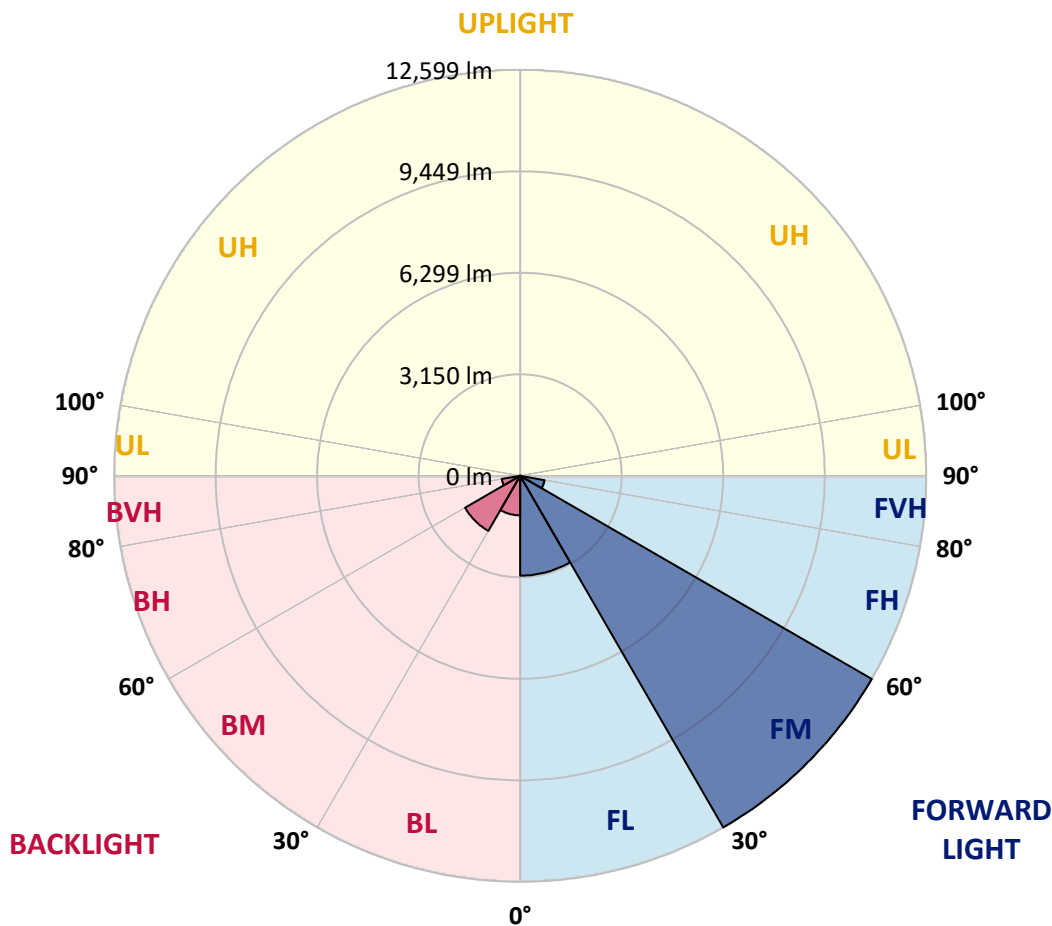
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3098.3	15.3			
FM (30°-60°)	12598.5	62.0			
FH (60°-80°)	768.6	3.8			G1/1800
FVH (80°-90°)	28.4	0.1			G1/100
BL (0°-30°)	1226.5	6.0	B3/2500		
BM (30°-60°)	1975.0	9.7	B2/2500		
BH (60°-80°)	581.7	2.9	B2/1000		G2/1000
BVH (80°-90°)	35.0	0.2			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°	52°	55°	65°	75°	85°
0°	5725.6	5725.6	5725.6	5725.6	5725.6	5725.6	5725.6	5725.6	5725.6	5725.6	5725.6
2.5°	6741.5	6611.8	6626.4	6533.4	6433.1	6403.7	6300.9	6203.0	6129.5	5972.9	5828.4
5°	7368.2	7329.0	7270.2	7196.8	7120.9	6934.9	6829.6	6707.2	6438.0	6195.6	5955.7
7.5°	7458.7	7451.4	7483.2	7483.2	7510.1	7439.1	7289.8	7204.1	6917.7	6523.6	6078.1
10°	6822.3	6844.3	6998.5	7199.2	7478.3	7671.7	7647.2	7625.2	7311.8	6773.3	6222.5
12.5°	6315.6	6266.6	6357.2	6528.5	6947.1	7414.7	7730.4	7732.9	7652.1	7172.3	6327.8
15°	6029.2	6063.4	6087.9	6168.7	6484.5	7025.4	7581.1	7745.1	8100.1	7453.8	6494.3
17.5°	6212.7	6097.7	6092.8	6112.4	6273.9	6680.3	7304.5	7586.0	8344.9	7816.1	6699.9
20°	6452.6	6450.2	6381.7	6357.2	6354.7	6717.0	7123.4	7505.2	8474.6	8286.1	6907.9
22.5°	6873.7	6873.7	6761.1	6707.2	6592.2	6888.4	7147.8	7407.3	8690.0	8609.2	7008.3
25°	7578.7	7463.6	7270.2	7138.0	7072.0	7177.2	7407.3	7639.9	8878.5	8951.9	7216.4
27.5°	8229.8	8048.7	7953.2	7725.5	7637.4	7576.2	7786.7	8021.7	9098.8	9485.6	7329.0
30°	8969.1	8937.2	8765.9	8472.1	8254.3	8141.7	8335.1	8567.6	9502.7	10031.5	7588.5
32.5°	10290.9	10002.1	9769.5	9409.7	9054.7	8814.9	9005.8	9160.0	10173.4	10601.8	7872.4
35°	11718.1	11625.0	11223.6	10574.9	10031.5	9816.0	9928.6	10043.7	10954.3	11473.3	8349.8
37.5°	13120.7	12993.4	12662.9	12117.1	11456.1	11018.0	11098.7	11233.4	11830.7	12648.3	8932.4
40°	14129.2	13972.6	13806.1	13725.3	13069.3	12469.6	12423.0	12457.3	13015.4	13749.8	9578.6
42.5°	14202.7	14396.0	14447.5	14773.0	14618.8	14126.8	13840.4	13847.7	14146.4	14839.1	10232.2
45°	14048.4	13869.7	14249.2	15137.8	15646.9	15877.0	15394.8	15333.6	14846.5	15470.7	10557.8
47.5°	12430.4	12479.3	13120.7	14525.8	15997.0	17025.1	16912.5	16709.3	15221.0	15448.6	10506.3
50°	9825.8	10122.0	10716.9	12467.1	15017.8	17206.2	17869.6	17399.6	14998.2	14841.6	9982.5
52.5°	6543.2	6665.6	7057.3	9316.7	12075.4	15380.1	16768.1	16875.8	14792.6	14046.0	9319.1
55°	2913.0	2903.2	3454.0	4866.4	7576.2	11703.4	13700.8	14356.9	14001.9	13235.7	8672.9
57.5°	1233.7	1275.4	1500.6	2102.7	3725.7	7062.2	9282.4	9857.7	10768.3	10868.6	6653.4
60°	834.7	839.6	900.8	1052.6	1559.3	3316.9	4868.9	5559.2	6210.3	6166.2	3529.9
62.5°	656.0	673.2	719.7	780.9	925.3	1505.5	2178.6	2562.9	2604.6	2190.9	1339.0
65°	560.6	563.0	609.5	660.9	724.6	876.3	1050.1	1069.7	1082.0	1042.8	984.1
67.5°	462.7	467.5	504.3	563.0	621.8	670.7	719.7	744.2	800.5	910.6	895.9
70°	367.2	374.5	406.3	455.3	509.2	538.5	599.7	621.8	673.2	758.8	793.1
72.5°	279.1	281.5	308.4	342.7	391.7	421.0	472.4	496.9	531.2	604.6	636.5
75°	200.7	208.1	227.7	244.8	252.1	271.7	320.7	347.6	396.6	428.4	430.8
77.5°	105.3	110.2	115.1	115.1	139.5	176.2	208.1	222.8	257.0	281.5	269.3
80°	41.6	44.1	56.3	75.9	97.9	127.3	149.3	156.7	186.0	200.7	208.1
82.5°	24.5	26.9	36.7	53.9	71.0	90.6	107.7	115.1	134.6	151.8	156.7
85°	12.2	14.7	22.0	34.3	46.5	56.3	53.9	51.4	51.4	49.0	51.4
87.5°	4.9	4.9	7.3	7.3	7.3	9.8	12.2	12.2	12.2	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5725.6	5725.6	5725.6	5725.6	5725.6	5725.6	5725.6	5725.6	5725.6	5725.6	5725.6
2.5°	5733.0	5635.0	5544.5	5378.0	5196.9	5145.5	4934.9	4859.1	4805.2	4741.6	4722.0
5°	5762.3	5632.6	5341.3	5005.9	4739.1	4396.4	4171.2	3928.9	3752.6	3708.6	3696.3
7.5°	5823.5	5600.8	5099.0	4592.2	4046.4	3581.3	3226.3	3035.4	2866.5	2856.7	2839.6
10°	5892.1	5505.3	4834.6	4039.0	3341.4	2910.5	2697.6	2614.3	2572.7	2562.9	2558.0
12.5°	5948.4	5485.7	4538.4	3500.5	2842.0	2582.5	2518.9	2511.5	2528.7	2533.6	2543.4
15°	5972.9	5407.4	4181.0	3018.2	2531.1	2435.7	2462.6	2492.0	2504.2	2536.0	2511.5
17.5°	6019.4	5307.0	3740.4	2636.4	2357.3	2374.5	2421.0	2455.2	2474.8	2496.8	2465.0
20°	6043.8	5216.5	3326.7	2408.7	2296.1	2327.9	2391.6	2418.5	2443.0	2452.8	2416.1
22.5°	6021.8	5030.4	2961.9	2225.1	2237.4	2279.0	2335.3	2364.7	2350.0	2310.8	2288.8
25°	5963.1	4768.5	2582.5	2107.6	2154.1	2227.6	2271.6	2249.6	2222.7	2200.7	2193.3
27.5°	5960.6	4447.8	2308.4	1999.9	2083.2	2183.5	2168.8	2149.2	2161.5	2144.4	2124.8
30°	5972.9	4136.9	2083.2	1938.7	2031.7	2080.7	2097.8	2078.3	2092.9	2061.1	2070.9
32.5°	5909.2	3833.4	1936.3	1867.7	1970.6	1968.1	2024.4	2039.1	2004.8	1938.7	1948.5
35°	5936.1	3588.6	1811.4	1835.9	1902.0	1902.0	1946.1	1928.9	1838.4	1799.2	1809.0
37.5°	6122.2	3348.7	1750.2	1791.9	1835.9	1855.5	1840.8	1767.4	1745.3	1745.3	1750.2
40°	6298.4	3143.1	1713.5	1782.1	1774.7	1787.0	1679.3	1686.6	1686.6	1689.0	1676.8
42.5°	6455.1	3003.6	1684.1	1723.3	1735.6	1671.9	1605.8	1598.5	1615.6	1613.2	1603.4
45°	6511.4	2888.5	1642.5	1657.2	1667.0	1561.8	1529.9	1515.2	1534.8	1542.2	1552.0
47.5°	6296.0	2793.0	1596.0	1566.6	1547.1	1478.5	1436.9	1410.0	1434.5	1476.1	1485.9
50°	6019.4	2668.2	1522.6	1466.3	1424.7	1395.3	1365.9	1339.0	1356.1	1385.5	1378.2
52.5°	5610.6	2472.4	1429.6	1370.8	1299.8	1307.2	1280.2	1265.6	1275.4	1275.4	1268.0
55°	5028.0	2031.7	1272.9	1231.3	1172.5	1192.1	1197.0	1177.4	1157.9	1175.0	1160.3
57.5°	3431.9	1434.5	1135.8	1135.8	1077.1	1104.0	1101.6	1055.0	1008.5	1013.4	1003.6
60°	1985.2	1143.2	1047.7	1037.9	976.7	998.7	1003.6	971.8	900.8	905.7	895.9
62.5°	1128.5	976.7	915.5	900.8	888.6	908.2	908.2	866.6	805.4	810.3	800.5
65°	959.6	905.7	817.6	815.1	810.3	815.1	795.6	751.5	697.6	675.6	678.1
67.5°	871.4	837.2	751.5	729.5	714.8	712.3	675.6	634.0	609.5	589.9	587.5
70°	763.7	736.8	673.2	643.8	629.1	594.8	558.1	531.2	496.9	487.1	496.9
72.5°	604.6	602.2	577.7	545.9	514.1	487.1	455.3	418.6	386.8	379.4	362.3
75°	418.6	423.5	428.4	423.5	396.6	362.3	325.6	296.2	257.0	235.0	230.1
77.5°	274.2	281.5	288.9	279.1	261.9	230.1	205.6	168.9	139.5	122.4	119.9
80°	200.7	210.5	215.4	208.1	188.5	164.0	137.1	107.7	85.7	71.0	71.0
82.5°	154.2	164.0	168.9	156.7	137.1	117.5	97.9	75.9	58.7	46.5	44.1
85°	53.9	51.4	61.2	63.6	75.9	71.0	58.7	44.1	34.3	24.5	22.0
87.5°	14.7	14.7	17.1	17.1	14.7	12.2	12.2	12.2	9.8	7.3	7.3
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)