

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: P647980

Luminaire Tested: **GALN-SA6A-835-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647980
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6A-835-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21441.7 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

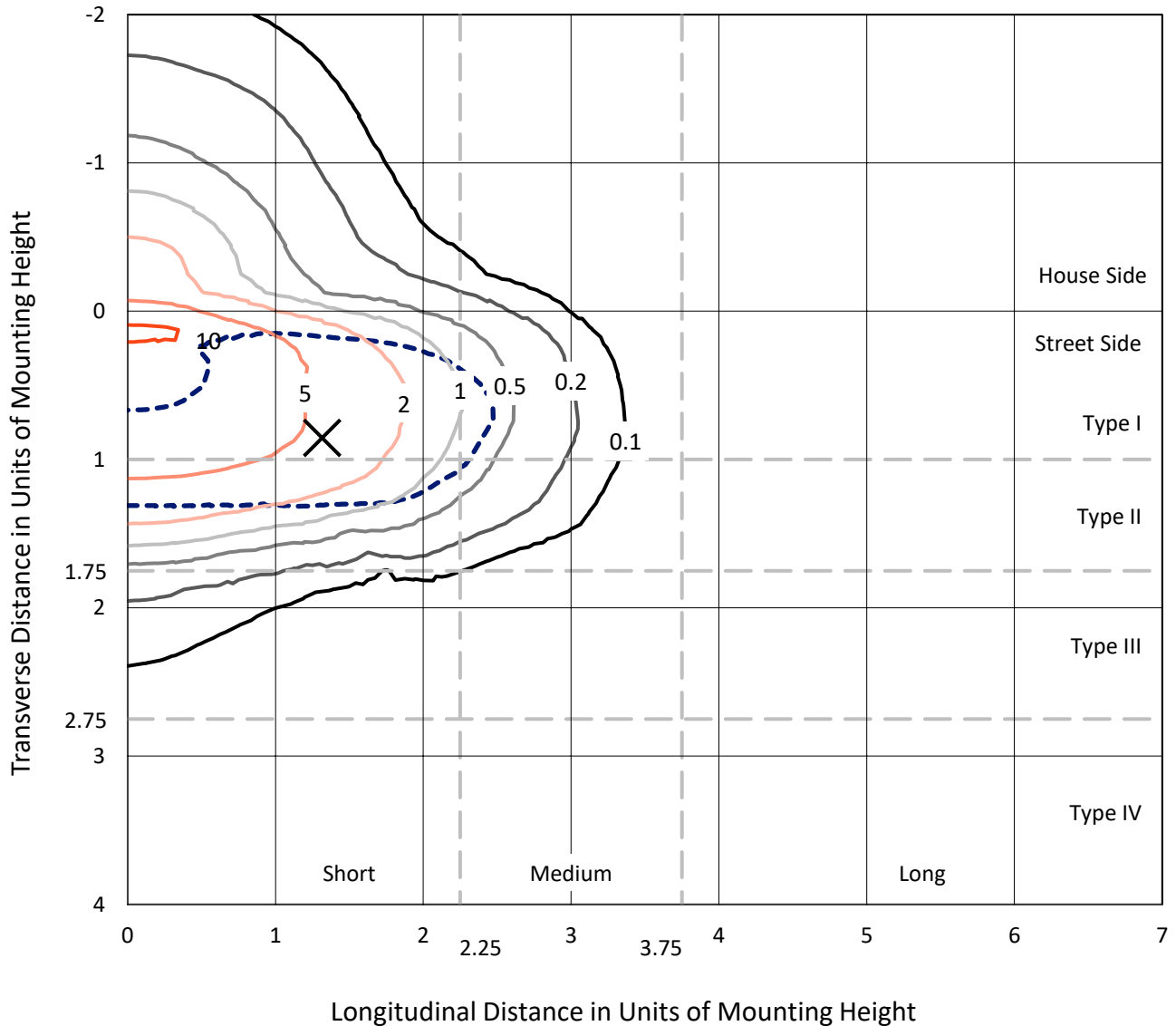
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

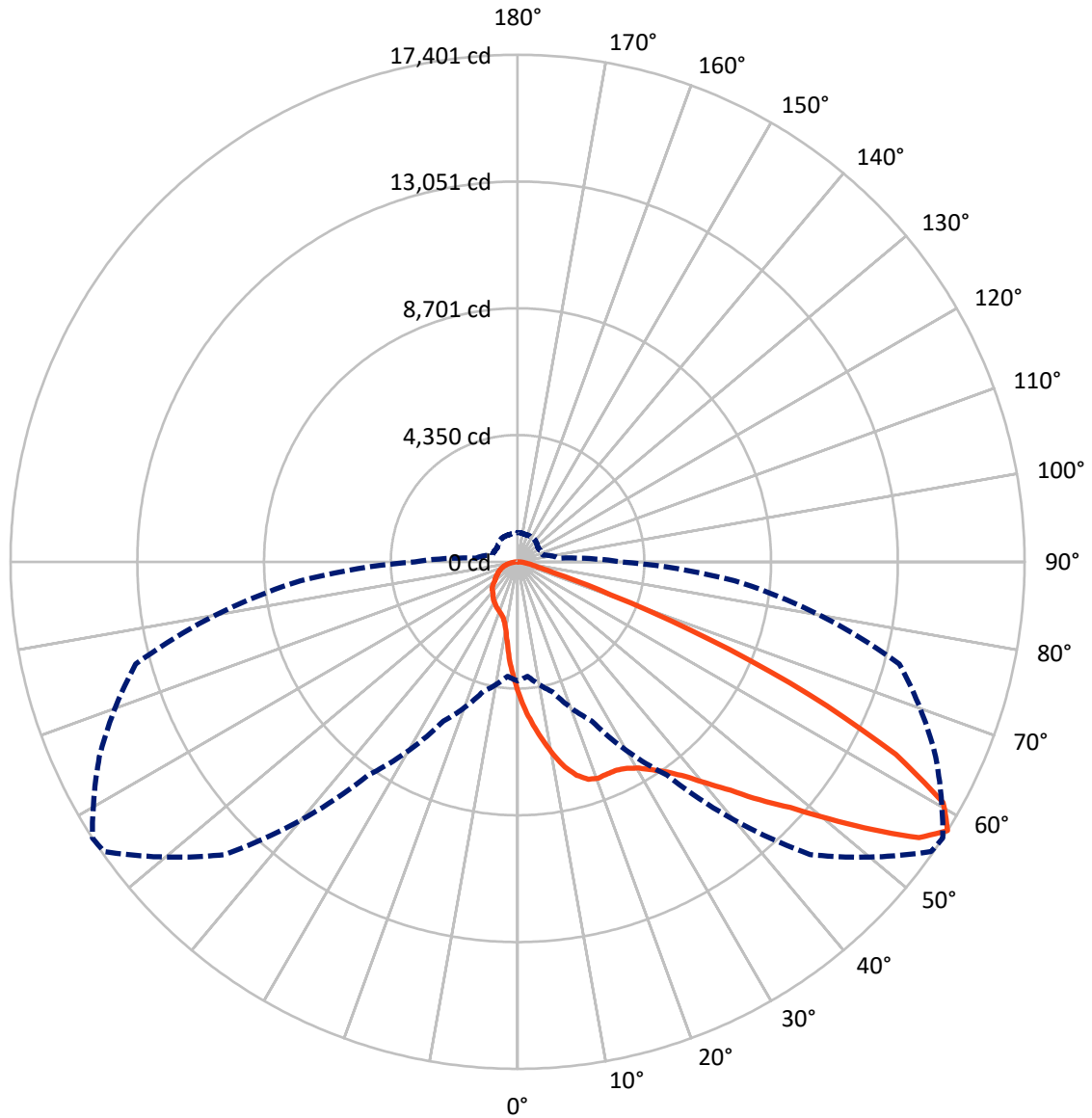
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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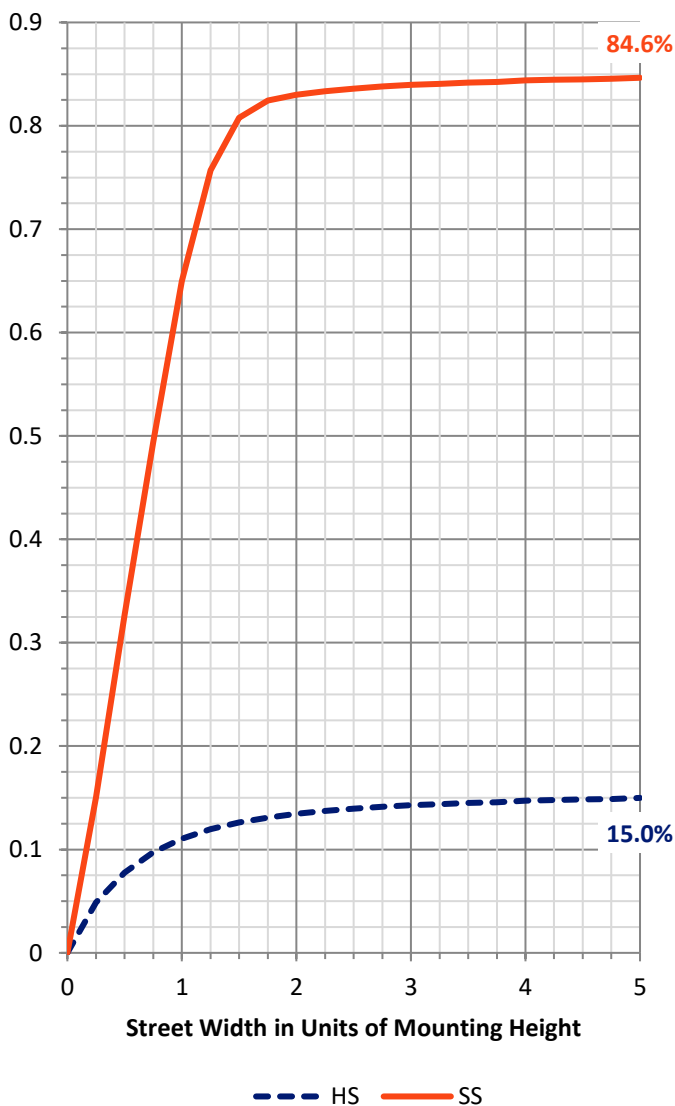
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3260.7	0.0	3260.7
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	18181.0	0.0	18181.0
	% Fixture	84.8	0.0	84.8
Total	Lumens	21441.7	0.0	21441.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.9	2.0
10°-20°	1275.9	6.0
20°-30°	2118.7	9.9
30°-40°	3191.3	14.9
40°-50°	4791.5	22.3
50°-60°	5370.6	25.0
60°-70°	3143.1	14.7
70°-80°	929.7	4.3
80°-90°	187.9	0.9
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°	21441.7	100.0
0°-180°	21441.7	100.0

Coefficient of Utilization



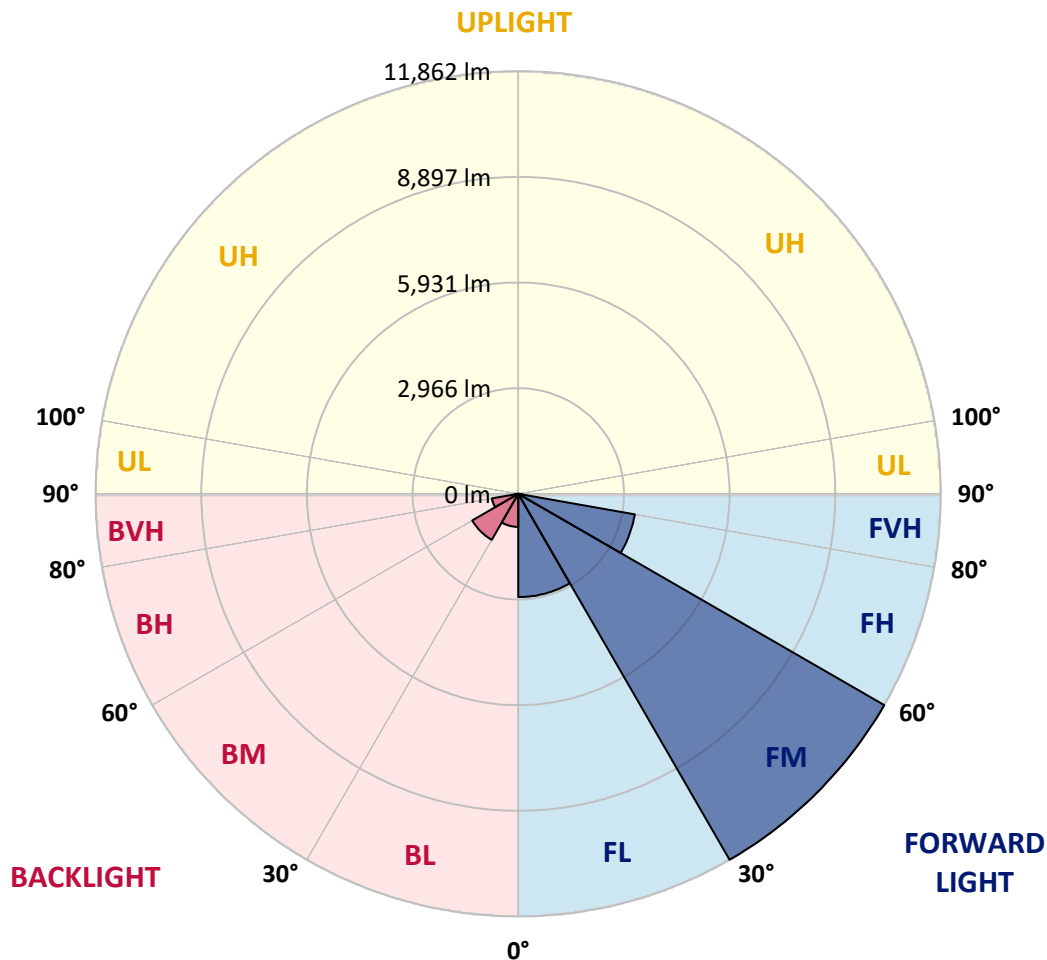
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2898.4	13.5			
FM (30°-60°)	11862.5	55.3			
FH (60°-80°)	3322.6	15.5			G2/5000
FVH (80°-90°)	97.5	0.5			G1/100
BL (0°-30°)	929.1	4.3	B2/1000		
BM (30°-60°)	1490.9	7.0	B2/2500		
BH (60°-80°)	750.3	3.5	B2/1000		G2/1000
BVH (80°-90°)	90.4	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	4504.7	4504.7	4504.7	4504.7	4504.7	4504.7	4504.7	4504.7	4504.7	4504.7	4504.7
2.5°	5597.4	5536.4	5488.2	5445.9	5390.8	5241.7	5092.7	5090.4	4971.8	4788.7	4600.9
5°	6509.3	6427.2	6437.7	6306.3	6174.8	5958.9	5643.2	5626.7	5374.4	5031.6	4683.0
7.5°	7103.2	7104.4	7071.5	6996.4	6854.4	6609.1	6251.1	6170.1	5819.2	5299.3	4776.9
10°	7072.7	7104.4	7159.5	7224.1	7267.6	7146.7	6820.3	6721.7	6265.2	5623.2	4881.4
12.5°	6666.6	6715.9	6794.6	6956.5	7218.2	7417.8	7306.3	7226.5	6781.6	5945.9	4996.4
15°	6413.1	6442.4	6485.8	6595.0	6876.7	7354.4	7643.1	7600.9	7268.7	6311.0	5125.5
17.5°	6335.6	6364.9	6379.0	6446.0	6646.7	7136.1	7775.7	7850.8	7700.6	6646.7	5255.8
20°	6413.1	6427.2	6427.2	6467.1	6624.3	7008.2	7769.9	7921.3	8055.1	7049.2	5377.9
22.5°	6616.1	6622.0	6613.8	6627.9	6745.2	7043.3	7714.7	7902.5	8341.5	7390.7	5472.9
25°	6945.9	6955.3	6901.4	6868.5	6954.1	7198.3	7745.2	7917.8	8565.6	7717.1	5536.4
27.5°	7320.3	7332.1	7266.4	7190.1	7230.0	7389.6	7864.9	8019.9	8733.5	8038.7	5576.2
30°	7779.3	7784.0	7673.6	7582.1	7556.3	7674.8	8069.2	8213.5	8942.4	8417.7	5636.1
32.5°	8248.7	8284.0	8141.9	8012.8	7969.4	8005.8	8370.8	8510.5	9191.2	8825.0	5732.3
35°	8887.2	8893.1	8722.9	8565.6	8422.4	8469.4	8757.0	8857.9	9535.1	9295.7	5868.5
37.5°	9684.1	9738.2	9503.4	9210.0	9033.9	8965.9	9224.1	9334.4	10017.5	9873.2	6073.9
40°	10569.2	10589.1	10388.4	10205.3	9883.7	9686.5	9864.9	9984.7	10612.5	10562.1	6312.2
42.5°	11125.5	11168.9	11184.1	11165.3	10923.6	10592.6	10660.7	10717.0	11316.8	11208.8	6556.3
45°	11313.3	11377.9	11596.2	12058.6	12084.4	11758.1	11599.7	11653.6	12084.4	11861.4	6789.9
47.5°	11002.2	11112.6	11515.1	12463.5	13173.6	13198.2	12720.5	12602.0	12783.9	12402.5	6958.8
50°	10198.3	10221.8	10837.9	12211.1	13684.1	14575.0	14080.8	13860.2	13448.3	12802.7	7075.0
52.5°	8954.2	8981.2	9497.6	11038.7	13369.6	15537.4	15672.4	15278.1	14123.1	13113.7	7151.4
55°	6646.7	6802.8	7370.8	8860.3	11879.0	15447.0	16937.6	16713.4	14938.9	13360.2	7271.0
57.5°	4086.8	3943.7	4617.4	6028.1	8934.2	14205.3	17328.5	17401.2	15836.7	13566.7	7471.8
60°	1880.3	1908.4	2186.6	3109.1	5445.9	11112.6	16321.4	16781.5	16333.1	13559.8	7522.2
62.5°	1295.8	1269.9	1199.6	1365.0	2483.5	7028.1	13786.3	14565.6	15337.9	13138.3	7321.5
65°	1158.4	1132.6	996.4	950.7	1140.8	3063.3	10022.2	11005.8	12914.2	12075.0	6821.5
67.5°	1082.2	1046.9	906.1	816.9	814.6	1219.4	5909.5	7093.8	9578.5	10208.8	5910.7
70°	1002.3	974.1	834.5	735.9	693.7	766.4	2597.4	3400.2	6219.4	7356.8	4604.4
72.5°	922.5	889.6	764.1	658.4	603.3	573.9	995.3	1294.6	3514.0	4410.7	2822.7
75°	806.3	789.9	683.1	596.3	536.4	463.6	631.4	720.7	1680.7	2025.8	1416.7
77.5°	705.4	687.8	606.8	521.1	477.7	376.8	448.3	489.5	708.9	821.6	639.6
80°	516.4	534.0	511.8	460.1	426.0	295.7	301.6	335.7	421.3	466.0	390.9
82.5°	327.5	360.3	394.4	354.5	322.8	233.6	208.9	221.8	287.5	305.1	173.7
85°	137.3	139.7	228.9	216.0	184.2	138.5	125.6	132.6	153.8	160.8	81.0
87.5°	52.9	51.7	81.0	75.1	57.5	39.9	39.9	44.6	61.0	56.4	25.8
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°	4504.7	4504.7	4504.7	4504.7	4504.7	4504.7	4504.7	4504.7	4504.7	4504.7	4504.7
2.5°	4519.9	4436.6	4271.1	4065.6	3915.5	3746.4	3597.4	3490.6	3450.7	3431.9	3396.7
5°	4516.4	4352.1	4009.4	3650.2	3361.5	3065.7	2815.7	2653.7	2639.6	2531.7	2521.1
7.5°	4517.6	4266.4	3720.6	3192.4	2752.3	2449.5	2242.9	2189.0	2124.4	2108.0	2116.2
10°	4521.1	4157.3	3410.7	2739.4	2313.4	2115.0	2037.5	2016.4	2018.7	2025.8	2027.0
12.5°	4525.7	4051.6	3089.2	2395.5	2066.9	1984.7	1976.5	1995.3	2015.2	2030.5	2034.0
15°	4531.6	3930.7	2775.8	2118.5	1943.6	1936.6	1963.6	1995.3	2023.4	2045.7	2049.3
17.5°	4524.6	3789.9	2512.9	1948.3	1875.6	1909.6	1954.2	1994.1	2019.9	2041.0	2043.4
20°	4508.2	3632.6	2259.3	1828.6	1833.3	1888.5	1936.6	1974.2	2002.4	2012.9	2021.1
22.5°	4444.8	3444.8	2038.7	1735.9	1782.8	1859.2	1916.6	1938.9	1907.2	1885.0	1890.8
25°	4336.8	3200.7	1833.3	1660.7	1737.1	1818.0	1876.8	1822.7	1796.9	1787.5	1792.2
27.5°	4201.8	2933.0	1678.4	1582.1	1678.4	1772.3	1755.9	1746.5	1734.7	1719.5	1723.0
30°	4056.3	2671.4	1546.9	1521.1	1615.0	1669.0	1676.0	1691.3	1678.4	1654.9	1664.3
32.5°	3921.3	2424.9	1447.1	1469.5	1570.4	1562.2	1615.0	1632.6	1572.7	1494.1	1497.6
35°	3806.3	2196.0	1372.1	1419.0	1494.1	1497.6	1550.4	1489.4	1424.9	1387.3	1389.7
37.5°	3719.5	2017.6	1322.7	1375.6	1396.7	1441.3	1413.2	1381.4	1373.2	1347.4	1348.6
40°	3667.8	1861.5	1291.1	1341.5	1338.0	1368.5	1278.2	1309.9	1321.5	1313.4	1314.6
42.5°	3616.1	1751.2	1258.2	1294.6	1293.4	1233.5	1213.6	1240.6	1271.1	1274.6	1272.3
45°	3575.1	1665.4	1224.1	1223.0	1246.5	1152.6	1146.7	1163.1	1206.5	1227.7	1226.5
47.5°	3529.3	1593.9	1172.5	1139.7	1146.7	1102.1	1092.7	1099.7	1152.6	1186.6	1196.0
50°	3471.8	1522.3	1107.9	1063.4	1034.0	1055.2	1057.5	1058.7	1111.5	1150.2	1158.4
52.5°	3426.0	1468.3	1034.0	1001.1	966.0	1012.9	1030.5	1032.9	1064.6	1096.2	1102.1
55°	3453.0	1437.7	961.3	937.8	906.1	969.5	1003.5	1008.2	1015.2	1038.7	1042.3
57.5°	3534.0	1444.8	902.6	872.0	848.6	917.8	975.3	978.8	974.1	1002.3	1007.0
60°	3558.7	1441.3	859.1	799.3	785.2	862.6	934.3	941.3	940.1	981.2	989.4
62.5°	3455.4	1396.7	815.7	738.3	728.9	806.3	876.7	904.9	910.8	969.5	980.0
65°	3212.4	1305.2	758.2	673.7	673.7	746.4	821.6	860.3	876.7	955.4	967.2
67.5°	2892.0	1197.2	699.5	618.6	616.2	689.0	762.9	802.8	828.6	935.5	942.5
70°	2400.2	1051.6	626.8	558.7	558.7	624.4	691.3	739.5	777.0	897.9	897.9
72.5°	1644.4	874.4	538.7	490.6	491.8	552.8	620.9	674.9	719.5	822.8	825.1
75°	1039.9	683.1	442.5	417.8	422.5	480.1	550.4	606.8	696.0	813.4	816.9
77.5°	552.8	480.1	352.1	346.2	352.1	404.9	483.6	561.0	698.4	705.4	693.7
80°	358.0	340.4	278.2	266.5	268.8	326.3	430.7	532.8	561.0	568.1	542.2
82.5°	194.8	216.0	197.2	185.4	185.4	254.7	367.4	423.7	402.5	334.5	319.2
85°	83.3	100.9	102.1	89.2	85.7	157.3	246.5	231.2	214.8	205.4	203.0
87.5°	23.5	32.9	32.9	24.7	18.8	43.5	49.3	14.1	0.0	1.2	2.3
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)