

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: P647248

Luminaire Tested: **GALN-SA1D-835-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647248
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-835-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6077.6 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

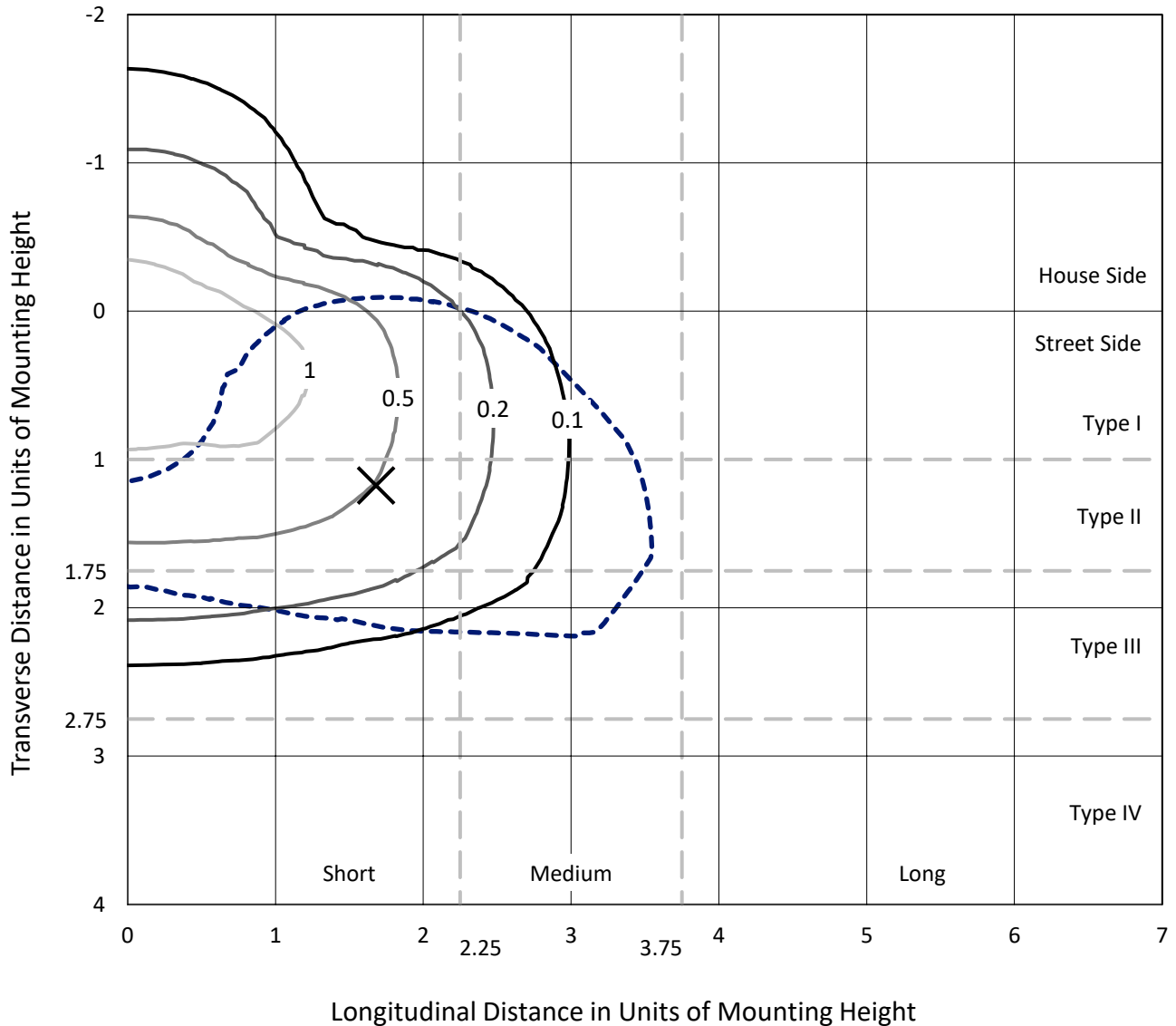
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

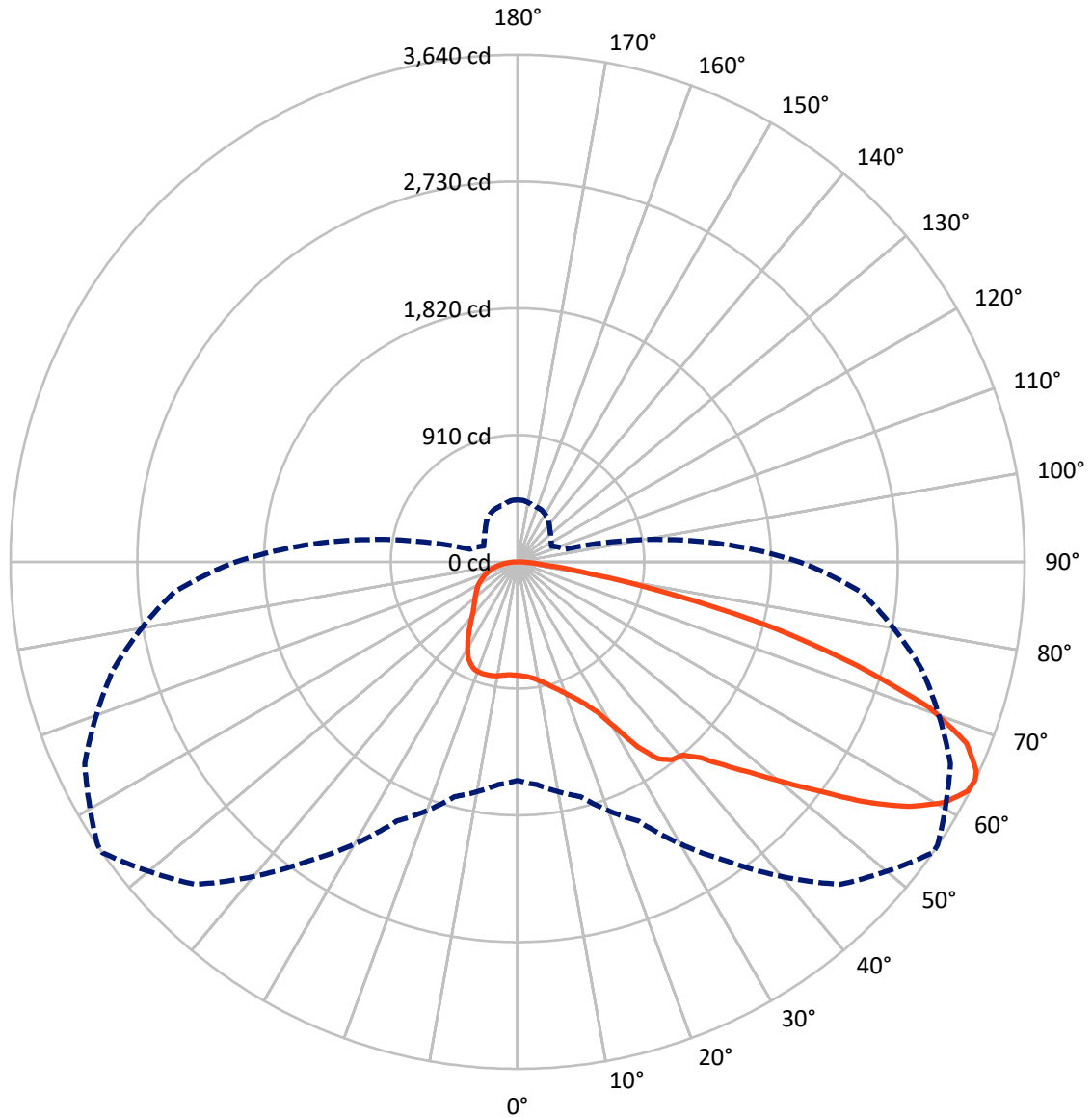
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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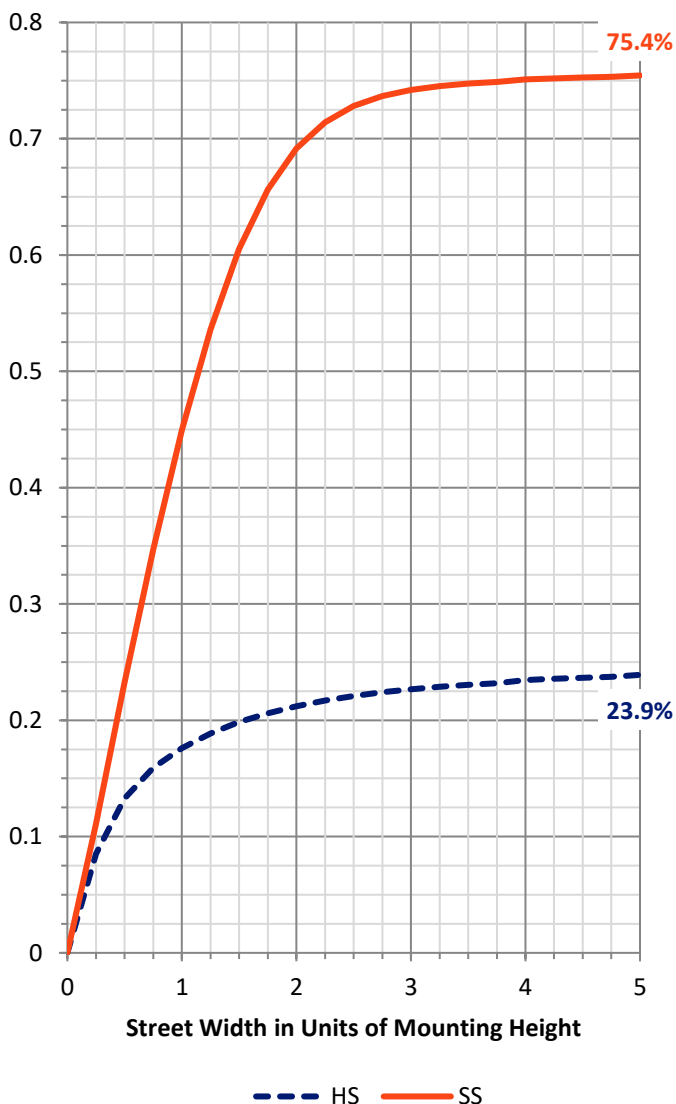
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1476.4	0.0	1476.4
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	4601.3	0.0	4601.3
	% Fixture	75.7	0.0	75.7
Total	Lumens	6077.6	0.0	6077.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.3	1.3
10°-20°	250.3	4.1
20°-30°	445.6	7.3
30°-40°	685.5	11.3
40°-50°	971.8	16.0
50°-60°	1406.7	23.1
60°-70°	1455.8	24.0
70°-80°	681.7	11.2
80°-90°	100.9	1.7
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°	6077.6	100.0
0°-180°	6077.6	100.0

Coefficient of Utilization



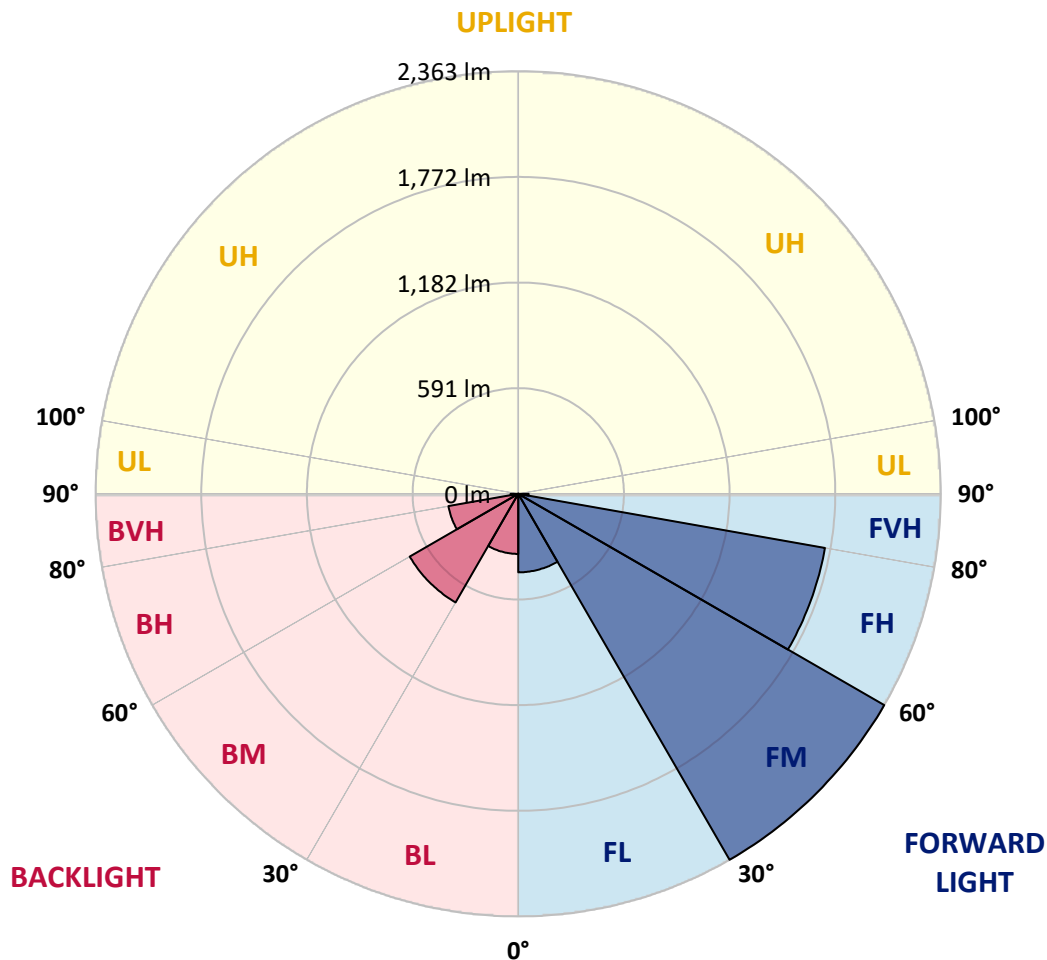
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	438.9	7.2			
FM (30°-60°)	2363.2	38.9			
FH (60°-80°)	1741.4	28.7			G1/1800
FVH (80°-90°)	57.8	1.0			G1/100
BL (0°-30°)	336.3	5.5	B1/500		
BM (30°-60°)	700.9	11.5	B1/1000		
BH (60°-80°)	396.1	6.5	B1/500		G1/500
BVH (80°-90°)	43.1	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	815.4	815.4	815.4	815.4	815.4	815.4	815.4	815.4	815.4	815.4	815.4
2.5°	824.6	824.3	825.3	824.3	824.9	822.5	821.5	822.2	821.2	819.5	816.4
5°	834.8	834.4	834.8	833.4	834.1	832.7	830.4	831.0	829.4	825.6	821.2
7.5°	852.1	850.7	850.7	850.3	849.0	847.0	845.2	844.5	842.9	838.1	831.4
10°	874.4	874.4	874.7	872.0	873.7	870.0	868.3	868.0	862.2	856.1	846.6
12.5°	903.9	905.5	904.5	903.2	902.5	901.2	895.4	896.8	890.3	879.8	868.3
15°	940.5	943.1	941.5	940.8	939.1	934.0	931.6	930.6	922.1	906.9	891.7
17.5°	988.9	985.5	984.2	982.4	975.3	971.6	967.6	966.8	959.4	941.5	917.8
20°	1031.2	1036.0	1033.2	1031.6	1024.5	1017.4	1014.3	1013.3	1006.9	987.2	949.2
22.5°	1081.7	1082.7	1083.8	1079.7	1076.3	1070.9	1065.4	1063.8	1061.4	1041.1	994.6
25°	1135.6	1139.7	1136.3	1132.2	1128.1	1127.8	1132.8	1132.2	1131.2	1111.5	1054.9
27.5°	1223.4	1227.0	1228.1	1223.7	1208.1	1209.4	1220.9	1224.7	1240.3	1207.8	1132.5
30°	1272.8	1276.5	1285.0	1301.6	1326.3	1348.0	1375.8	1384.3	1399.1	1337.8	1224.7
32.5°	1303.3	1304.6	1319.9	1350.7	1424.9	1505.9	1581.4	1584.5	1594.0	1507.9	1309.0
35°	1351.4	1352.4	1364.6	1398.4	1485.5	1620.3	1737.2	1741.0	1733.2	1560.8	1348.3
37.5°	1410.7	1413.4	1421.1	1449.3	1553.3	1716.3	1801.9	1799.3	1730.1	1602.7	1417.8
40°	1497.0	1497.0	1487.9	1525.8	1624.8	1771.1	1824.6	1819.9	1801.6	1724.4	1523.5
42.5°	1573.3	1572.0	1593.6	1619.3	1714.2	1855.8	1919.8	1927.7	1957.8	1877.2	1643.8
45°	1672.6	1678.7	1690.8	1737.6	1866.4	2000.5	2083.2	2090.6	2133.3	2057.0	1784.3
47.5°	1772.8	1774.8	1813.1	1875.4	2054.7	2196.6	2264.4	2276.6	2315.6	2267.4	1935.8
50°	1844.0	1863.3	1924.6	2022.8	2248.8	2435.8	2488.7	2503.3	2572.0	2496.4	2112.3
52.5°	1919.2	1938.2	2013.0	2162.7	2471.7	2680.4	2745.4	2755.3	2826.8	2728.2	2292.9
55°	1983.6	2001.2	2086.2	2286.8	2649.2	2930.1	3048.0	3036.5	3070.7	2906.7	2432.1
57.5°	1994.1	2008.2	2115.4	2366.0	2782.7	3144.2	3313.3	3320.0	3280.4	3040.2	2546.9
60°	1912.7	1941.8	2064.8	2357.5	2842.7	3293.2	3511.1	3515.8	3403.4	3108.6	2592.7
62.5°	1768.7	1765.7	1914.4	2221.4	2758.7	3327.1	3627.6	3622.5	3451.5	3075.8	2548.3
64°	1569.9	1606.5	1745.4	2054.0	2623.1	3275.0	3639.9	3637.1	3428.4	3007.3	2472.7
65°	1448.6	1446.6	1583.8	1917.2	2488.3	3196.4	3618.2	3614.4	3380.3	2946.0	2414.1
67.5°	1045.8	1050.6	1186.1	1479.5	2022.8	2889.1	3476.8	3463.0	3190.6	2742.8	2191.2
70°	633.5	636.2	742.6	981.4	1452.0	2335.5	3134.0	3134.7	2900.3	2439.2	1864.9
72.5°	333.7	340.8	383.5	557.3	881.8	1638.7	2542.6	2602.8	2490.0	2081.8	1473.4
75°	185.6	186.7	216.8	274.8	449.9	917.0	1911.1	1928.3	1971.4	1675.6	1089.5
77.5°	141.6	143.7	153.2	177.5	244.9	425.2	1156.6	1243.3	1389.4	1181.3	621.6
80°	114.9	116.9	125.0	139.6	162.9	201.5	537.3	584.0	743.6	524.5	242.6
82.5°	89.4	88.1	98.6	108.1	118.5	119.3	220.6	243.9	302.9	225.7	105.0
85°	66.4	66.4	74.9	72.8	76.6	69.8	97.2	107.4	121.3	95.8	48.8
87.5°	26.4	29.1	49.1	44.0	34.2	27.4	35.9	38.0	42.0	37.6	20.4
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°	815.4	815.4	815.4	815.4	815.4	815.4	815.4	815.4	815.4	815.4	815.4
2.5°	816.8	817.8	815.4	813.8	813.1	812.0	811.0	811.3	812.8	814.1	813.8
5°	820.8	821.2	817.1	815.1	813.8	812.4	812.4	813.4	816.1	818.2	818.2
7.5°	831.0	831.0	825.3	821.5	819.5	817.1	816.4	816.8	818.9	821.5	821.8
10°	847.0	845.6	838.1	832.4	828.6	822.9	817.8	815.1	816.1	817.8	817.8
12.5°	866.2	862.6	853.1	845.2	836.1	825.3	814.8	809.3	809.0	810.7	810.0
15°	886.9	882.8	869.7	855.4	839.5	823.6	811.0	803.3	797.2	795.4	799.2
17.5°	910.9	902.5	884.2	864.6	840.9	820.2	800.5	784.6	773.8	770.7	771.7
20°	940.1	929.0	904.2	873.4	839.8	808.0	777.5	756.1	738.5	733.1	733.8
22.5°	980.4	961.1	924.9	877.7	831.4	785.0	742.6	714.8	693.5	685.0	690.1
25°	1026.1	1005.1	944.5	876.7	809.3	748.0	701.3	665.0	645.7	633.2	635.9
27.5°	1089.2	1051.9	965.5	867.6	777.8	703.0	648.8	614.6	597.0	590.5	593.5
30°	1169.8	1112.6	988.2	842.9	728.0	646.1	595.9	573.5	563.1	554.9	557.7
32.5°	1228.1	1155.2	993.3	801.2	674.2	594.2	560.0	543.4	531.9	524.1	525.8
35°	1269.7	1191.5	990.9	750.0	617.9	551.5	531.6	518.0	499.3	482.4	479.4
37.5°	1325.6	1236.9	973.7	694.1	562.4	522.7	508.5	483.4	456.6	433.9	432.9
40°	1411.4	1290.1	936.7	628.4	515.0	501.4	484.1	451.6	422.8	404.5	403.2
42.5°	1499.8	1339.2	886.6	559.3	476.0	479.0	458.1	425.9	408.3	396.4	395.0
45°	1607.8	1392.4	832.4	499.3	447.2	458.1	435.3	416.7	406.2	398.4	396.4
47.5°	1724.7	1446.9	771.4	445.5	422.8	438.7	425.9	417.3	411.6	406.2	403.8
50°	1850.8	1507.9	714.2	402.1	400.7	418.7	424.9	421.8	418.4	416.7	414.7
52.5°	1989.0	1570.2	666.0	371.6	381.5	404.5	425.2	427.5	427.5	426.5	425.2
55°	2082.5	1613.6	617.2	346.9	361.8	393.0	424.5	433.6	437.0	435.7	434.3
57.5°	2151.6	1637.3	555.9	325.6	345.2	381.8	420.8	434.3	437.7	439.4	438.7
60°	2165.8	1615.3	475.7	303.2	327.3	365.5	407.2	424.2	428.5	439.0	440.0
62.5°	2101.8	1547.5	395.7	281.2	305.2	340.8	388.9	412.6	421.4	437.7	439.4
64°	2023.2	1471.6	351.3	267.3	291.0	326.9	379.8	409.6	421.1	442.8	444.1
65°	1965.6	1416.4	323.5	258.5	281.9	317.7	374.7	410.6	424.2	450.5	452.6
67.5°	1753.5	1226.3	267.6	237.8	260.2	302.2	375.7	419.1	423.4	453.6	453.3
70°	1451.0	976.3	224.3	218.8	239.2	289.6	371.6	405.5	405.8	425.9	421.1
72.5°	1086.5	721.6	194.5	199.2	215.8	259.9	350.9	387.2	381.5	384.1	379.4
75°	746.4	477.3	167.3	178.2	191.4	229.7	321.8	351.6	342.5	339.1	335.8
77.5°	398.4	263.9	139.2	157.5	166.3	198.5	280.9	309.7	300.1	287.0	282.5
80°	161.2	124.3	112.1	130.4	135.5	159.9	233.7	251.7	244.6	221.6	214.1
82.5°	81.0	74.5	88.1	102.7	103.0	114.2	173.8	190.7	174.8	146.7	140.2
85°	42.4	43.7	60.6	72.2	63.7	61.6	104.4	115.5	106.0	92.2	83.0
87.5°	15.3	17.6	31.9	31.5	22.4	11.8	23.0	11.2	6.1	3.8	4.8
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)