

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: P526368

Luminaire Tested: **GALN-SA1B-740-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526368
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-740-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS WITH
WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4829 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

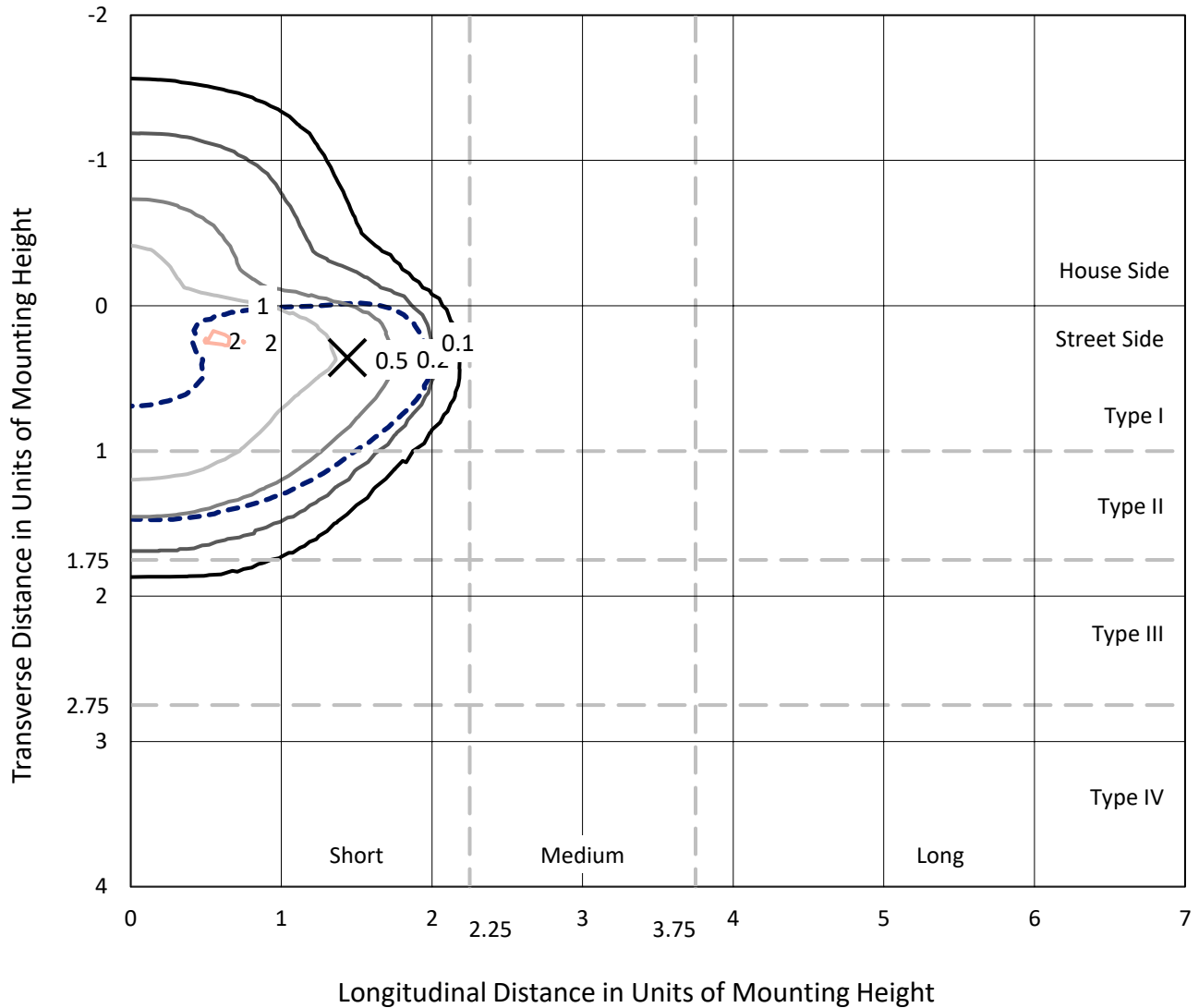
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

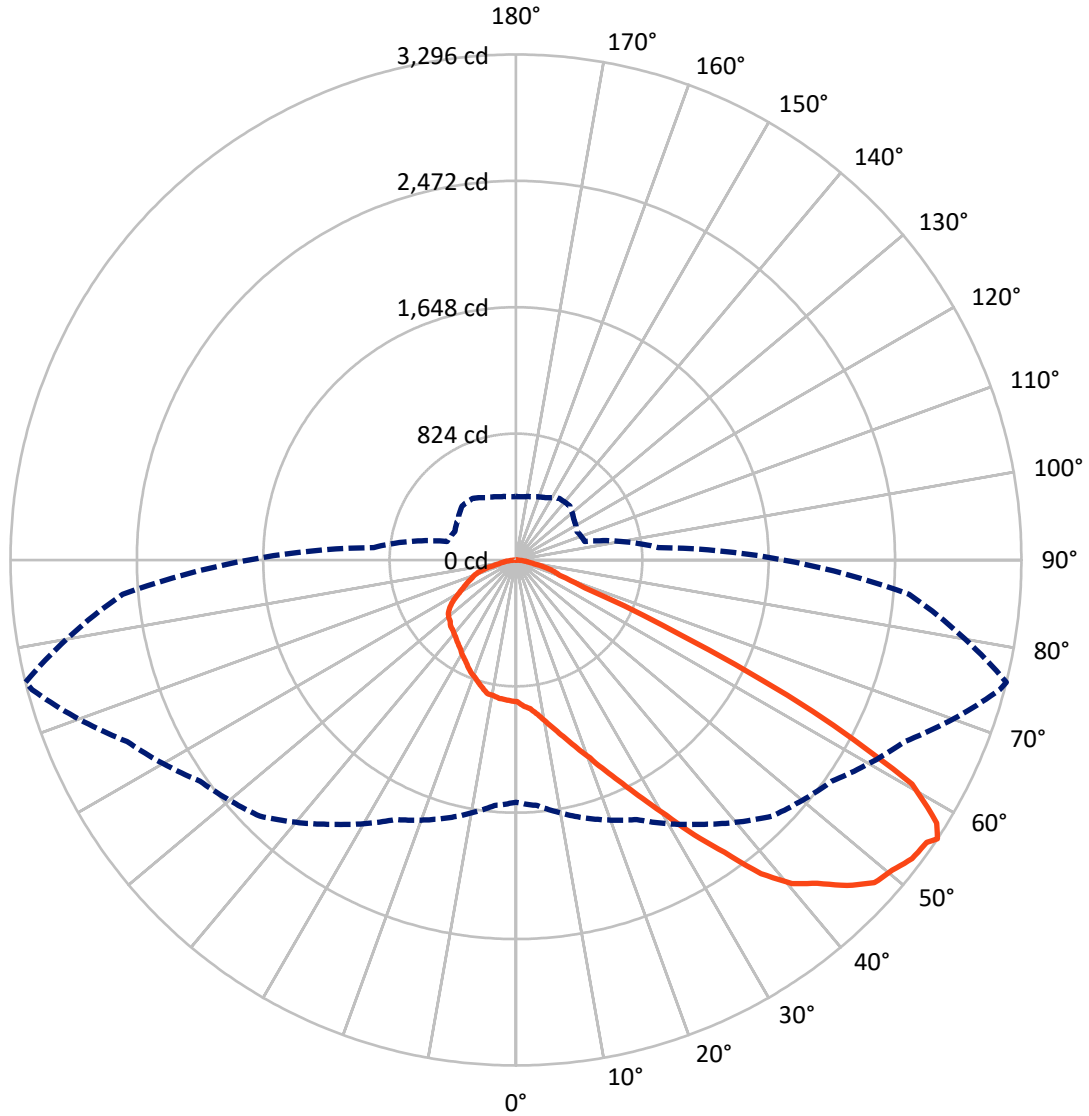
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical



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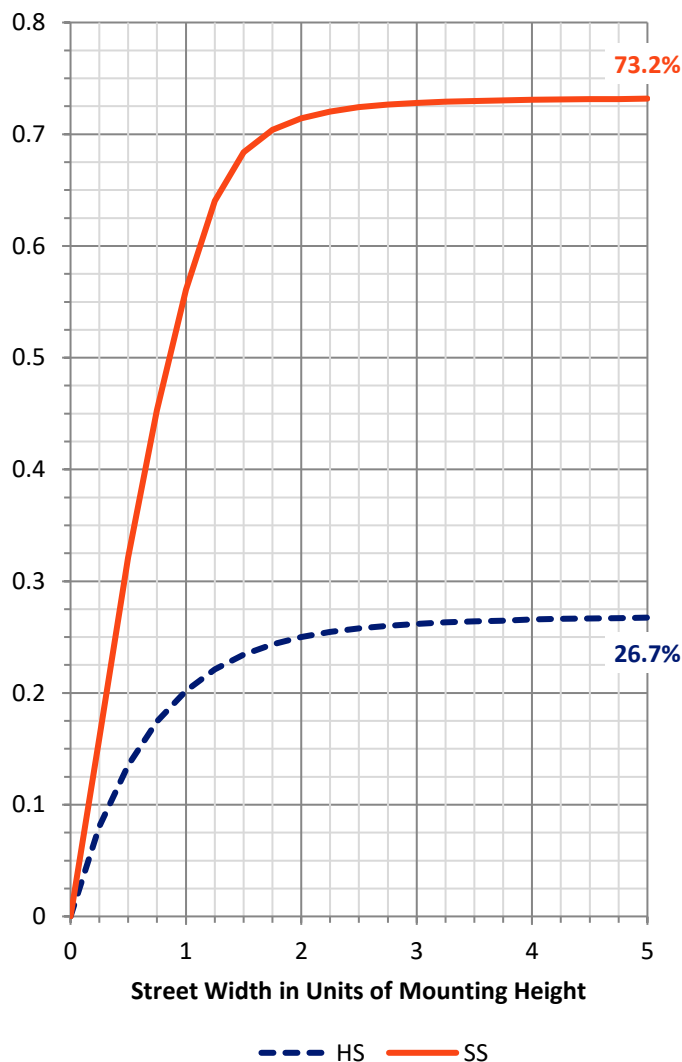
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1298.4	0.0	1298.4
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	3530.6	0.0	3530.6
	% Fixture	73.1	0.0	73.1
Total	Lumens	4829.0	0.0	4829.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.6	1.9
10°-20°	287.8	6.0
20°-30°	503.4	10.4
30°-40°	788.2	16.3
40°-50°	1146.6	23.7
50°-60°	1260.1	26.1
60°-70°	562.5	11.6
70°-80°	162.5	3.4
80°-90°	26.4	0.5
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°	4829.0	100.0
0°-180°	4829.0	100.0

Coefficient of Utilization

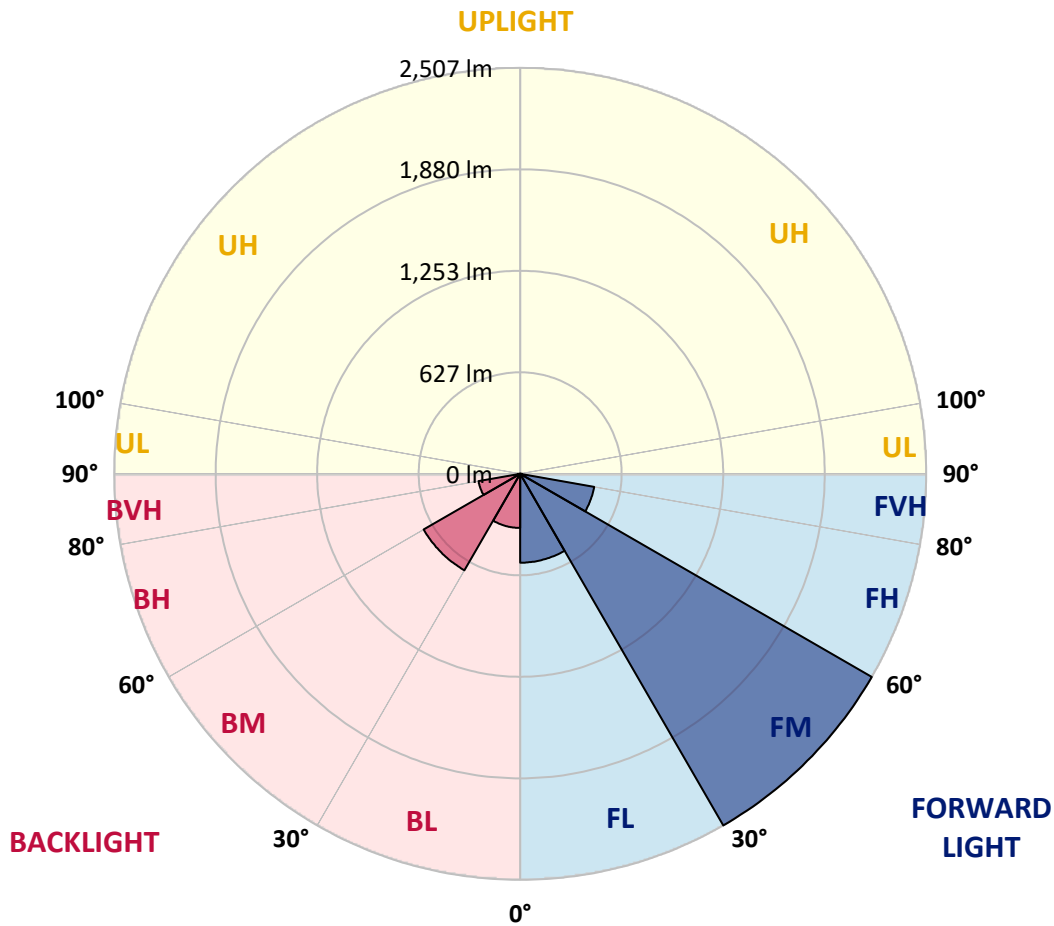


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	548.8	11.4			
FM (30°-60°)	2506.8	51.9			
FH (60°-80°)	463.7	9.6			G0/660
FVH (80°-90°)	11.3	0.2			G1/100
BL (0°-30°)	334.1	6.9	B1/500		
BM (30°-60°)	688.0	14.2	B1/1000		
BH (60°-80°)	261.2	5.4	B1/500		G1/500
BVH (80°-90°)	15.0	0.3			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	924.0	924.0	924.0	924.0	924.0	924.0	924.0	924.0	924.0	924.0	924.0
2.5°	1017.9	1001.6	1000.3	996.0	998.5	987.2	975.3	959.6	943.4	953.4	929.6
5°	1089.2	1067.3	1076.1	1061.1	1062.9	1047.9	1023.5	1005.3	985.3	973.4	956.5
7.5°	1114.3	1116.1	1122.4	1119.9	1107.4	1107.4	1091.1	1059.2	1024.1	1017.2	989.1
10°	1148.1	1148.7	1141.8	1143.7	1161.2	1153.1	1138.7	1124.9	1079.8	1071.7	1021.6
12.5°	1160.0	1148.7	1160.0	1170.0	1190.6	1201.9	1198.8	1188.8	1140.6	1134.9	1061.7
15°	1161.8	1155.0	1164.3	1186.9	1205.0	1252.6	1276.4	1269.5	1205.7	1206.3	1106.8
17.5°	1153.1	1162.5	1166.2	1185.6	1227.6	1272.0	1340.9	1350.3	1297.7	1289.5	1163.7
20°	1165.0	1158.1	1163.1	1180.6	1236.3	1305.8	1396.0	1457.9	1384.1	1378.4	1222.6
22.5°	1210.7	1201.3	1200.0	1211.3	1251.4	1323.4	1454.2	1565.6	1489.2	1492.4	1295.8
25°	1246.4	1251.4	1247.0	1246.4	1271.4	1349.6	1531.2	1693.9	1632.0	1613.8	1382.2
27.5°	1307.7	1319.6	1310.8	1322.7	1317.1	1389.1	1586.3	1836.0	1786.0	1761.5	1460.4
30°	1392.8	1399.1	1391.0	1391.0	1374.1	1444.2	1636.3	1984.4	1963.7	1930.6	1552.5
32.5°	1504.9	1514.3	1498.0	1488.6	1486.1	1526.2	1726.5	2130.9	2165.9	2137.8	1674.5
35°	1653.3	1647.6	1628.2	1619.4	1585.6	1652.0	1860.5	2299.3	2391.3	2341.2	1822.3
37.5°	1784.1	1775.3	1774.1	1725.2	1733.4	1787.8	1974.4	2427.0	2609.8	2595.4	1978.1
40°	1906.2	1914.3	1927.4	1899.9	1887.4	1947.5	2107.1	2524.6	2779.4	2773.8	2098.3
42.5°	2037.0	2029.5	2052.6	2029.5	2010.7	2095.8	2251.1	2592.2	2928.4	2882.1	2224.2
45°	2226.7	2202.9	2211.0	2212.9	2199.1	2230.4	2310.5	2641.1	3032.9	3027.9	2316.2
47.5°	2385.0	2385.7	2371.9	2361.2	2319.3	2350.6	2376.9	2671.7	3153.1	3145.0	2351.9
50°	2443.9	2435.7	2475.8	2499.0	2501.5	2437.6	2428.9	2688.6	3216.4	3180.7	2387.5
52.5°	2232.3	2239.8	2303.0	2440.8	2520.3	2527.1	2489.6	2723.7	3242.0	3234.5	2416.3
55°	1796.6	1832.9	1936.8	2095.8	2284.3	2491.5	2555.3	2760.0	3255.8	3249.5	2544.0
56°	1579.4	1607.6	1742.8	1867.3	2104.0	2361.9	2514.0	2798.8	3266.4	3295.9	2574.1
57.5°	1271.4	1303.9	1401.0	1542.4	1821.6	2115.2	2400.1	2751.2	3225.1	3236.4	2596.0
60°	795.0	798.1	914.6	1007.9	1204.4	1491.1	1831.7	2393.8	2984.7	2968.5	2331.8
62.5°	521.5	522.1	627.9	704.2	793.8	859.5	1078.0	1587.5	2202.2	2173.5	1660.1
65°	366.2	374.3	456.3	558.4	594.7	560.3	553.4	837.0	1230.1	1188.8	892.0
67.5°	267.9	268.6	341.2	450.7	503.3	426.3	346.2	408.8	487.0	485.8	413.2
70°	177.2	184.7	240.4	336.8	396.9	342.4	282.9	292.3	309.9	309.9	307.4
72.5°	103.3	110.2	147.1	213.5	222.9	214.1	224.1	250.4	261.7	261.0	257.9
75°	58.8	62.0	70.1	88.9	110.8	130.8	164.6	189.7	200.9	207.8	199.7
77.5°	34.4	36.3	41.3	50.7	57.6	70.7	89.5	107.0	122.1	120.2	121.4
80°	18.2	18.2	23.2	30.0	40.1	50.1	59.5	69.5	77.6	79.5	81.4
82.5°	10.6	11.3	15.0	21.9	28.8	35.7	45.7	52.6	60.1	60.7	62.0
85°	5.6	6.3	9.4	14.4	19.4	21.9	22.5	21.3	23.2	21.9	25.0
87.5°	1.9	1.9	3.1	2.5	2.5	3.1	3.8	3.8	5.0	5.0	5.0
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°	924.0	924.0	924.0	924.0	924.0	924.0	924.0	924.0	924.0	924.0	924.0
2.5°	929.0	929.0	918.3	898.3	895.2	887.0	879.5	878.9	873.3	868.3	865.7
5°	946.5	927.1	911.4	893.3	872.0	862.0	850.7	838.2	833.2	838.2	837.6
7.5°	966.5	950.3	903.3	869.5	845.1	835.1	822.6	809.4	810.7	810.7	801.9
10°	985.9	964.0	888.9	845.7	810.0	802.5	795.6	800.6	806.9	808.2	802.5
12.5°	1018.5	969.0	882.0	821.9	799.4	783.1	787.5	801.3	814.4	810.7	815.0
15°	1042.9	973.4	850.7	797.5	769.3	776.9	792.5	801.9	823.8	821.3	825.7
17.5°	1066.7	975.9	820.1	765.0	753.1	773.7	785.6	812.5	819.4	834.5	840.1
20°	1115.5	980.9	788.8	744.9	741.2	765.0	785.6	798.1	813.2	826.3	826.3
22.5°	1140.6	978.4	768.1	718.6	730.5	745.6	764.3	785.6	785.6	798.1	798.8
25°	1171.9	968.4	735.5	706.1	714.9	729.3	750.6	743.1	751.2	751.2	761.2
27.5°	1207.5	947.1	707.4	683.6	701.1	716.8	719.9	714.9	705.5	704.2	700.5
30°	1236.3	920.8	686.7	676.1	690.5	699.2	689.2	678.6	662.3	661.0	652.3
32.5°	1275.8	888.3	661.0	657.3	673.6	674.2	671.1	654.8	631.0	621.0	611.0
35°	1342.1	869.5	641.6	647.3	652.3	650.4	644.8	627.2	603.5	599.1	595.3
37.5°	1391.0	855.7	621.6	628.5	632.9	635.4	618.5	599.1	599.7	590.9	588.4
40°	1446.0	847.0	605.3	608.5	609.1	617.2	596.6	587.2	591.6	585.9	589.7
42.5°	1516.8	849.5	588.4	585.9	597.8	594.7	584.7	572.2	574.7	557.8	560.3
45°	1554.3	866.4	578.4	567.2	580.3	579.7	566.5	554.6	539.6	507.1	508.3
47.5°	1579.4	870.8	554.6	547.1	560.9	569.0	554.0	526.5	505.2	482.0	476.4
50°	1605.0	878.9	543.4	527.7	533.3	552.8	534.0	507.7	487.0	466.4	469.5
52.5°	1627.6	894.5	521.5	498.3	508.3	529.6	519.6	487.6	465.1	448.2	443.2
55°	1727.7	929.6	484.5	454.5	478.3	505.2	499.5	460.7	436.3	427.6	426.3
56°	1743.4	930.9	465.1	439.4	461.4	497.0	490.2	448.8	426.9	413.2	413.8
57.5°	1745.9	915.8	437.6	425.7	444.5	485.1	476.4	439.4	409.4	396.9	393.1
60°	1536.2	714.9	403.1	395.6	417.5	448.8	445.7	413.8	380.0	365.6	372.5
62.5°	1047.3	524.0	376.2	375.0	386.2	416.9	408.8	380.0	351.8	342.4	338.0
65°	609.7	397.5	349.9	344.9	354.3	370.6	376.2	346.2	316.8	310.5	308.6
67.5°	359.9	328.6	316.1	308.0	304.9	314.9	319.3	301.7	272.3	263.5	271.1
70°	301.1	292.3	293.0	279.2	271.7	264.8	261.0	245.4	221.0	209.7	206.6
72.5°	259.8	256.0	253.5	241.0	234.1	218.5	202.2	186.5	168.4	159.0	159.6
75°	198.4	197.2	198.4	192.2	180.3	167.8	152.7	132.7	118.9	107.0	109.5
77.5°	118.3	122.1	123.9	121.4	116.4	105.2	95.8	82.6	69.5	60.1	58.8
80°	81.4	84.5	87.6	84.5	79.5	71.4	61.3	51.3	41.9	36.9	35.7
82.5°	62.0	65.1	67.0	63.9	57.6	48.8	41.9	35.1	27.5	22.5	21.3
85°	22.5	25.7	25.0	30.0	32.6	31.3	26.9	20.7	15.6	11.3	10.6
87.5°	6.3	5.6	6.3	6.3	6.3	5.6	5.0	5.0	5.0	3.1	2.5
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)