

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: P450962

Luminaire Tested: **GALN-SA1D-740-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450962  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1D-740-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7872 lumens  
Efficiency: N/A  
Efficacy: 121.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

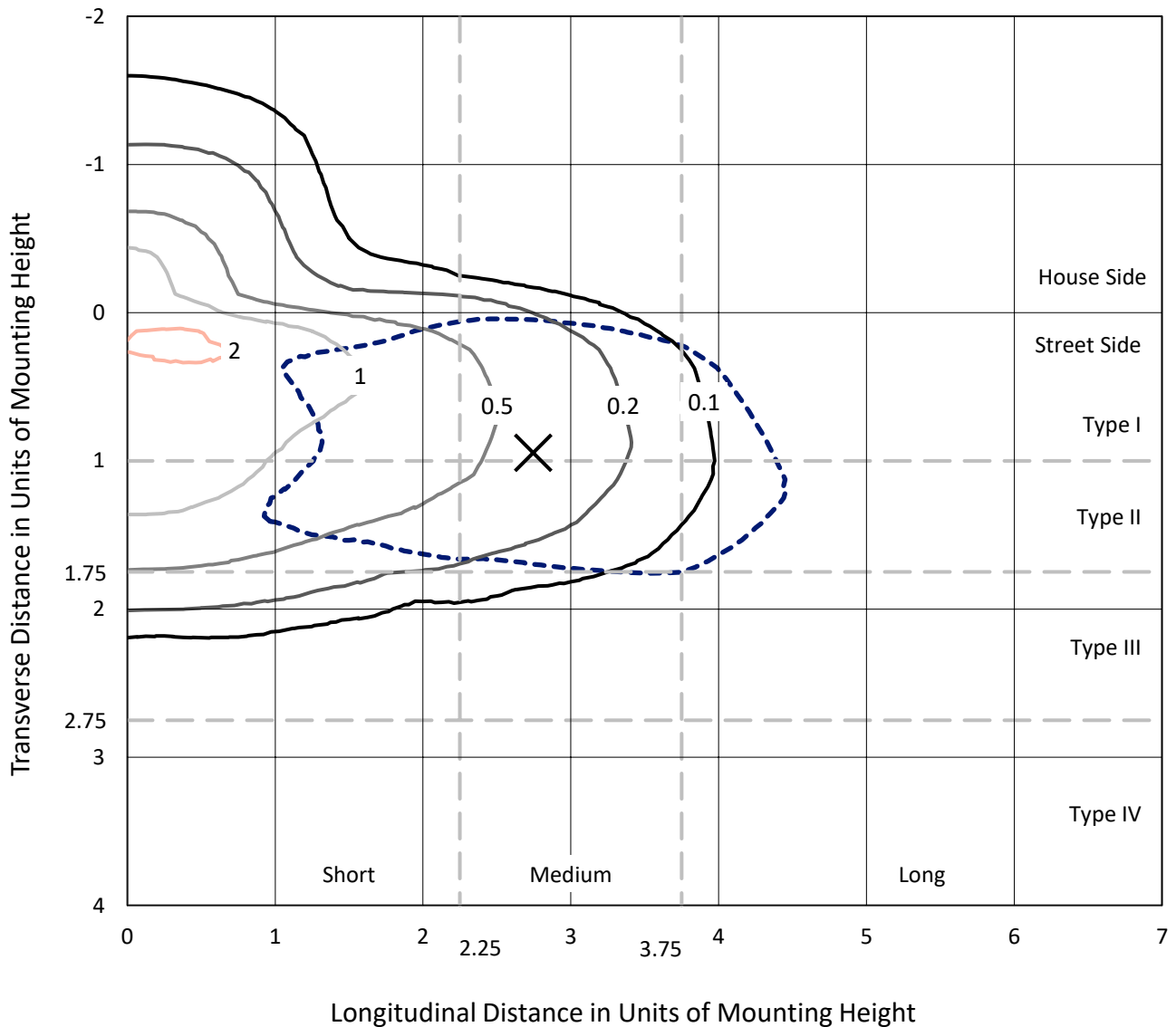
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

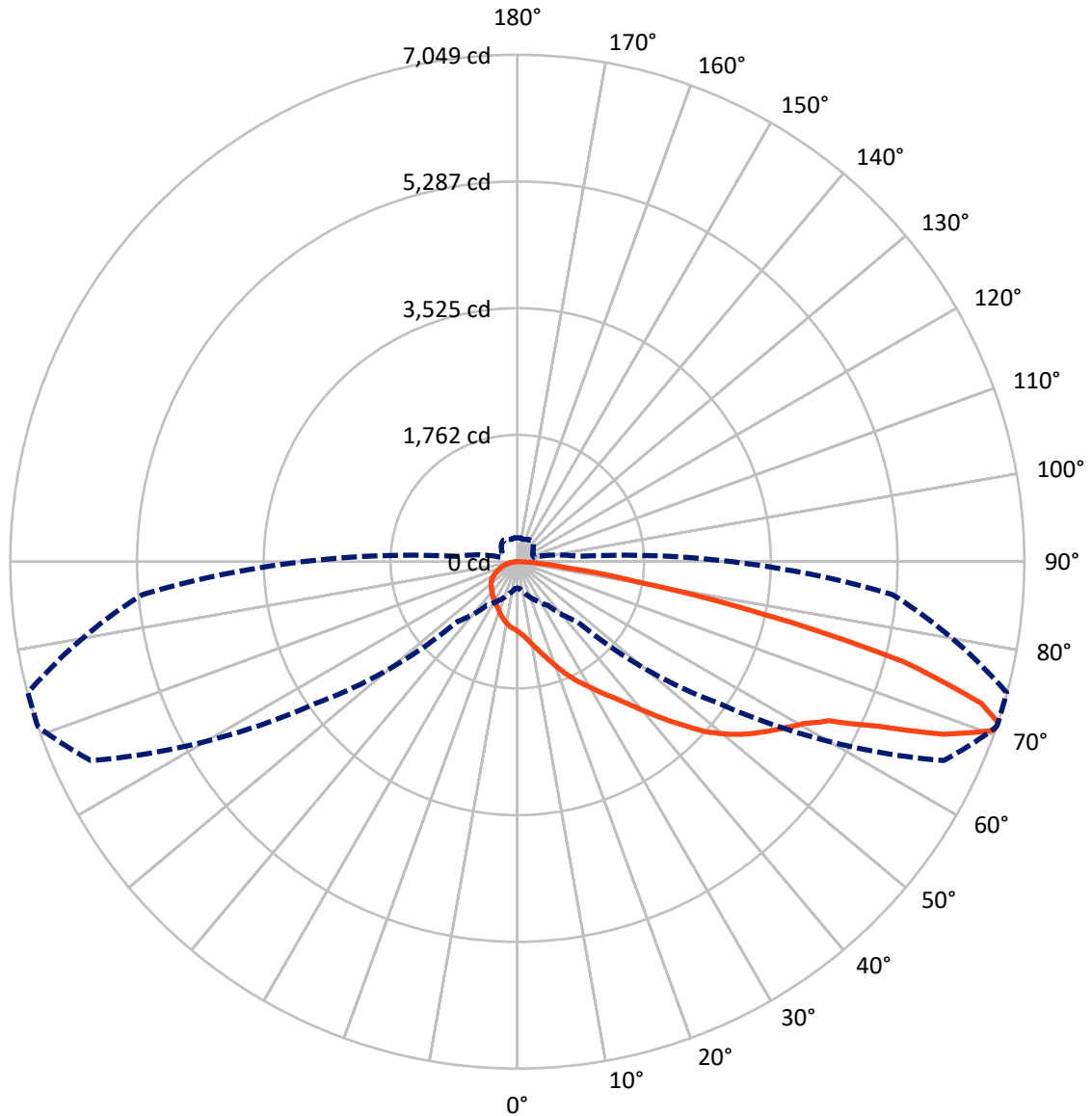
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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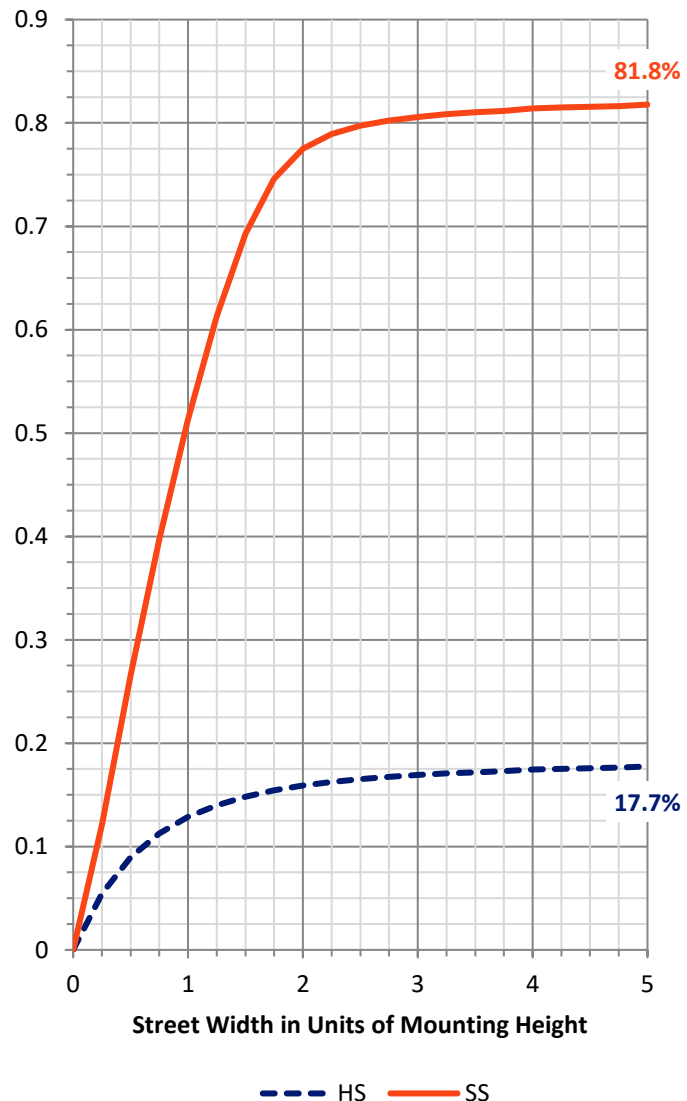
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1415.8	0.0	1415.8
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	6456.2	0.0	6456.2
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	7872.0	0.0	7872.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.0	1.2
10°-20°	315.2	4.0
20°-30°	550.8	7.0
30°-40°	819.2	10.4
40°-50°	1207.0	15.3
50°-60°	1689.8	21.5
60°-70°	1890.0	24.0
70°-80°	1154.5	14.7
80°-90°	148.5	1.9
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°	7872.0	100.0
0°-180°	7872.0	100.0



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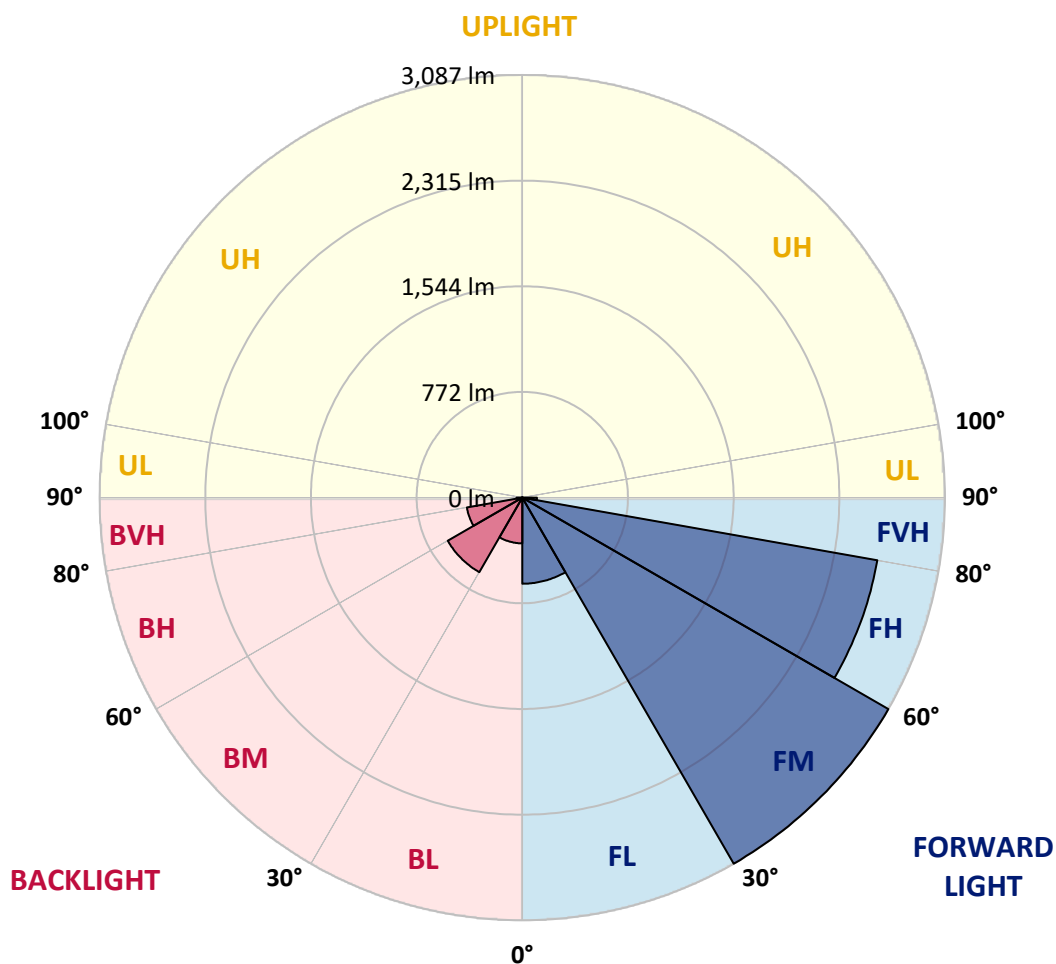
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	629.0	8.0			
FM (30°-60°)	3087.2	39.2			
FH (60°-80°)	2633.2	33.4			G2/5000
FVH (80°-90°)	106.9	1.4			G2/225
BL (0°-30°)	334.0	4.2	B1/500		
BM (30°-60°)	628.8	8.0	B1/1000		
BH (60°-80°)	411.3	5.2	B1/500		G1/500
BVH (80°-90°)	41.7	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	966.1	966.1	966.1	966.1	966.1	966.1	966.1	966.1	966.1	966.1	966.1
2.5°	1072.6	1067.4	1067.8	1060.5	1050.9	1040.6	1025.8	1012.9	1002.5	996.4	978.7
5°	1188.5	1183.3	1176.8	1160.8	1153.9	1128.4	1095.9	1066.5	1044.0	1031.5	996.0
7.5°	1282.4	1281.1	1279.4	1270.3	1252.6	1217.1	1189.4	1138.3	1105.0	1081.2	1020.6
10°	1340.4	1342.5	1343.8	1345.6	1338.2	1319.6	1281.5	1217.1	1174.7	1144.4	1052.7
12.5°	1369.8	1372.0	1379.3	1395.3	1405.3	1403.1	1372.0	1308.8	1250.4	1210.6	1086.8
15°	1388.0	1391.4	1404.4	1425.6	1458.9	1480.1	1465.0	1406.6	1342.5	1295.4	1127.5
17.5°	1407.9	1411.8	1426.1	1456.3	1500.0	1545.9	1562.3	1512.2	1442.5	1386.2	1172.9
20°	1419.1	1424.3	1444.7	1484.5	1535.5	1602.1	1656.7	1630.3	1554.1	1491.8	1225.3
22.5°	1437.3	1441.6	1458.9	1501.3	1562.3	1645.8	1751.0	1745.4	1678.3	1597.8	1282.8
25°	1486.6	1493.5	1502.2	1527.7	1586.6	1690.4	1829.3	1868.2	1798.6	1708.6	1335.6
27.5°	1579.6	1585.3	1584.8	1588.3	1621.6	1728.9	1897.2	1989.8	1918.0	1820.6	1386.7
30°	1685.6	1687.8	1689.5	1681.8	1689.1	1768.3	1959.5	2110.1	2038.3	1935.7	1431.2
32.5°	1814.6	1818.9	1804.2	1784.3	1778.2	1826.7	2011.0	2230.4	2180.6	2052.5	1475.4
35°	1966.9	1978.1	1948.3	1913.2	1888.6	1910.6	2080.2	2353.2	2326.4	2201.8	1533.8
37.5°	2140.8	2154.7	2127.0	2058.2	2023.1	2029.2	2170.7	2505.1	2510.7	2371.8	1620.7
40°	2283.2	2301.3	2302.2	2204.8	2151.6	2158.5	2285.3	2668.7	2733.1	2582.1	1723.3
42.5°	2377.0	2394.8	2413.4	2356.3	2300.5	2339.8	2419.0	2846.0	2983.2	2837.4	1866.5
45°	2480.0	2496.0	2506.4	2480.4	2449.3	2551.4	2580.4	3034.7	3249.7	3122.5	2023.1
47.5°	2599.4	2617.2	2627.1	2602.5	2590.8	2737.0	2754.3	3210.8	3534.4	3399.4	2196.2
50°	2758.6	2772.1	2766.9	2751.3	2748.7	2879.4	2921.3	3375.6	3769.3	3697.5	2375.7
52.5°	2956.8	2972.8	2978.4	2956.4	2946.4	2981.0	3055.9	3525.8	3983.1	3953.7	2567.4
55°	3076.7	3102.2	3187.8	3222.5	3246.3	3112.6	3200.8	3691.5	4174.7	4223.6	2773.4
57.5°	2923.1	2955.9	3147.6	3320.7	3544.4	3441.4	3406.3	3864.5	4366.4	4485.4	3020.0
60°	2548.4	2555.7	2802.8	3121.7	3571.6	3864.1	3835.1	4139.7	4574.1	4749.3	3344.9
62.5°	1767.9	1783.4	2075.5	2584.3	3235.0	4016.4	4564.6	4614.8	4871.8	5144.3	3821.3
65°	911.6	891.3	1157.4	1624.2	2438.9	3654.7	5155.6	5488.3	5517.3	5762.2	4491.9
67.5°	561.2	570.2	694.9	948.4	1442.1	2656.1	5093.7	6555.7	6403.0	6520.6	5114.5
70°	421.4	432.7	518.3	649.0	879.2	1518.6	4096.4	6814.4	7027.7	6997.4	5304.0
71°	366.5	378.1	467.3	590.6	738.6	1172.1	3451.3	6543.6	7049.4	7044.2	5232.6
72.5°	312.4	319.7	389.4	500.2	622.6	821.6	2592.9	5868.6	6748.7	6921.3	4977.8
75°	245.3	250.9	282.1	381.6	490.2	504.5	1391.4	4399.7	5542.8	5871.6	4144.0
77.5°	199.9	203.8	219.8	283.4	378.1	357.4	729.9	2863.8	3472.5	3803.5	2441.1
80°	158.8	163.1	172.6	192.1	283.4	254.8	348.3	1451.1	1677.4	1674.0	974.4
82.5°	123.3	124.6	135.9	141.0	193.8	180.9	188.6	614.4	680.6	703.1	351.8
85°	77.9	81.8	120.3	108.2	116.0	106.0	93.0	244.0	300.7	296.4	140.6
87.5°	23.8	25.1	40.7	45.9	51.5	46.3	34.2	71.8	87.8	95.2	35.0
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°	966.1	966.1	966.1	966.1	966.1	966.1	966.1	966.1	966.1	966.1	966.1
2.5°	971.8	967.0	950.1	936.3	923.3	909.0	896.9	893.4	890.4	889.1	888.7
5°	980.8	966.6	933.3	906.0	884.4	864.5	851.9	846.3	840.7	840.7	842.4
7.5°	993.8	967.9	916.4	875.7	848.4	829.8	820.8	819.9	821.2	822.5	822.9
10°	1008.1	967.0	891.7	841.1	816.9	808.2	808.6	816.0	822.9	828.1	829.0
12.5°	1021.9	961.8	862.7	808.6	793.1	794.8	806.9	823.4	836.8	844.1	844.6
15°	1037.5	953.6	827.7	777.9	772.7	786.1	808.6	833.7	854.1	866.2	867.5
17.5°	1050.5	939.7	790.9	748.1	754.6	779.2	810.4	842.8	867.5	882.6	885.2
20°	1065.2	922.0	752.8	719.5	738.1	771.4	806.9	842.0	867.5	882.2	885.7
22.5°	1076.9	896.9	716.5	696.2	723.4	761.9	795.2	823.4	844.1	851.9	857.1
25°	1081.7	865.3	682.3	677.1	711.7	746.3	768.8	784.8	791.3	790.5	792.6
27.5°	1079.1	829.0	652.9	662.0	697.0	722.1	733.4	732.1	720.4	709.6	714.8
30°	1068.2	785.7	628.2	646.4	678.0	691.8	690.1	673.2	651.2	630.8	632.1
32.5°	1048.8	739.0	605.3	628.7	651.2	657.2	645.5	623.5	591.9	565.5	561.6
35°	1032.3	694.4	585.0	608.3	624.3	621.3	610.1	581.5	552.9	529.6	525.7
37.5°	1029.7	656.3	565.5	585.4	594.5	590.2	576.3	552.1	541.7	524.0	521.8
40°	1043.6	629.5	545.6	561.2	565.5	562.0	546.9	533.0	542.6	538.2	538.2
42.5°	1081.2	615.2	527.8	536.9	540.4	543.0	532.2	520.5	532.2	512.3	505.8
45°	1140.9	615.7	511.8	513.1	523.5	532.6	525.3	507.9	501.9	462.1	454.3
47.5°	1228.8	630.4	498.9	490.6	509.2	524.4	514.0	488.9	462.1	435.7	430.9
50°	1331.3	656.8	487.2	467.3	490.2	514.0	506.2	476.8	449.1	433.1	430.1
52.5°	1445.1	690.1	472.9	441.3	466.8	509.2	507.9	475.1	437.0	426.2	423.6
55°	1585.7	723.0	455.2	411.0	446.1	505.3	503.2	460.8	434.4	426.6	425.7
57.5°	1749.2	770.6	429.6	380.3	422.3	489.3	484.6	452.1	425.7	420.1	419.7
60°	2012.7	844.6	393.3	352.2	398.0	461.2	467.3	437.4	411.9	410.6	410.2
62.5°	2359.3	948.4	355.6	323.2	369.9	424.9	442.2	417.5	397.2	403.7	404.5
65°	2837.8	1035.8	316.7	298.5	338.8	389.8	418.4	398.9	380.7	393.3	393.3
67.5°	3149.8	1037.5	281.2	273.0	307.2	360.4	393.3	376.8	359.5	380.7	381.6
70°	3084.9	909.0	251.8	246.2	276.5	328.8	365.6	352.6	332.7	351.8	344.8
71°	2980.2	837.6	240.1	235.8	264.4	313.7	352.6	341.8	321.9	334.4	330.6
72.5°	2813.2	727.3	221.1	222.0	246.2	294.6	334.4	323.2	303.3	310.2	308.9
75°	2377.9	635.1	189.1	193.0	211.6	262.2	298.1	289.5	269.1	269.1	267.8
77.5°	1486.6	443.9	157.1	159.2	179.6	224.6	256.1	248.8	229.3	222.8	221.1
80°	554.7	229.3	122.9	125.5	138.0	177.0	212.0	205.1	185.2	177.8	170.9
82.5°	209.8	115.1	90.4	88.3	101.7	135.0	166.1	157.9	142.3	124.6	119.4
85°	79.2	57.1	55.4	53.7	59.7	80.0	103.0	101.2	84.8	72.3	71.0
87.5°	20.8	18.6	21.6	16.0	16.9	15.1	15.6	6.5	3.0	1.3	0.9
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)