

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: P526529

Luminaire Tested: **GALN-SA1C-727-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526529
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-727-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3618 lumens
Efficiency: N/A
Efficacy: 63.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

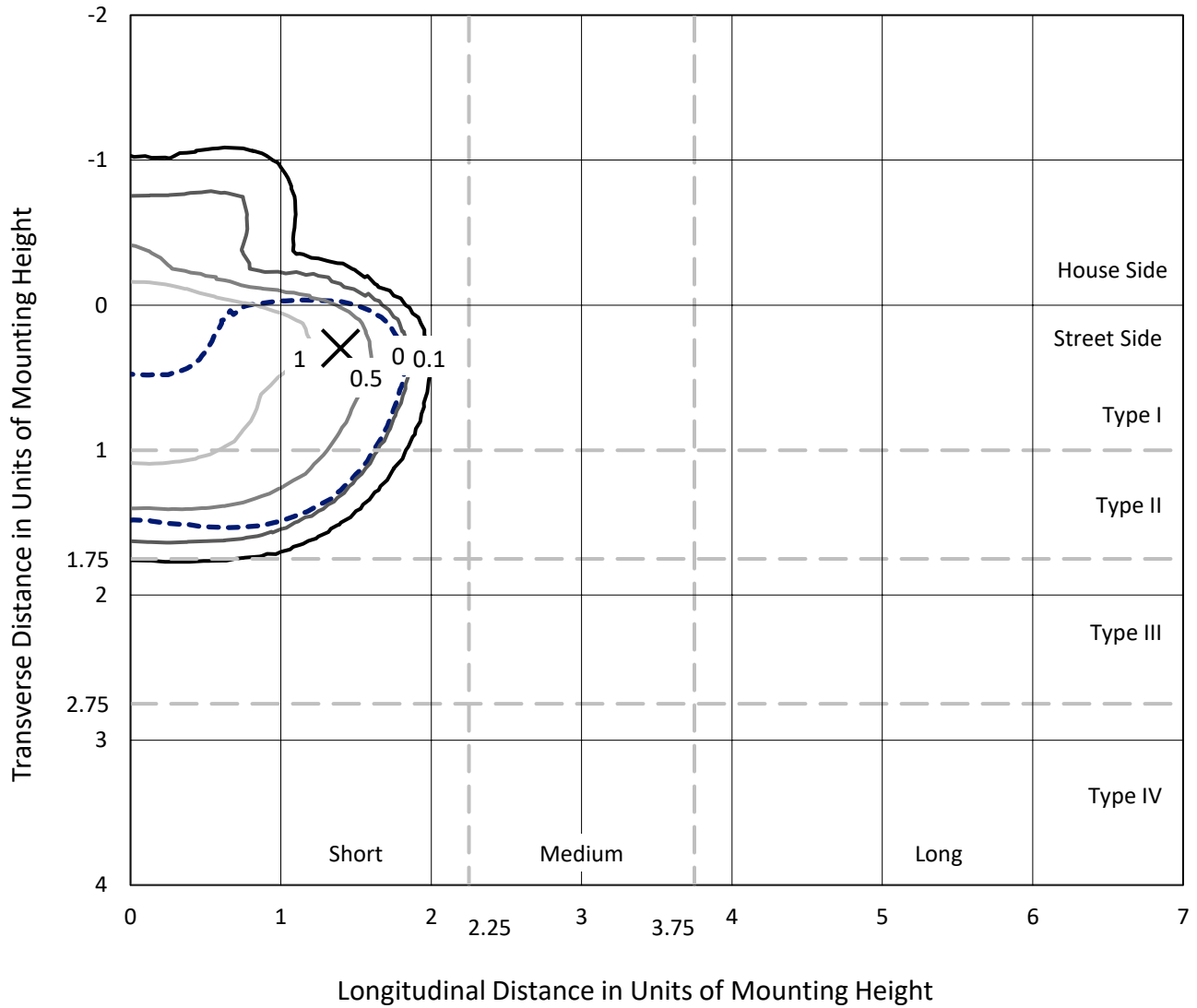
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

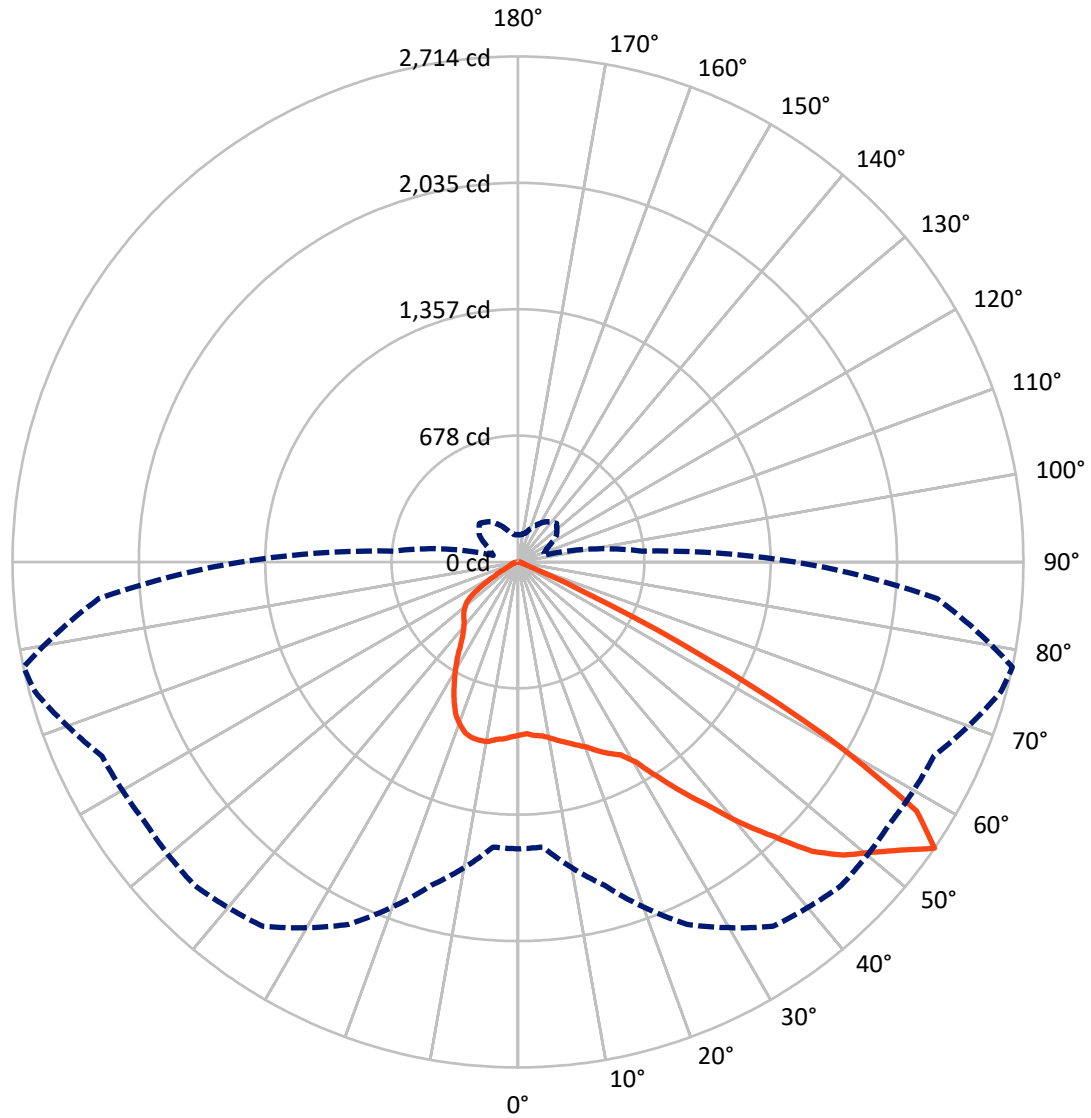
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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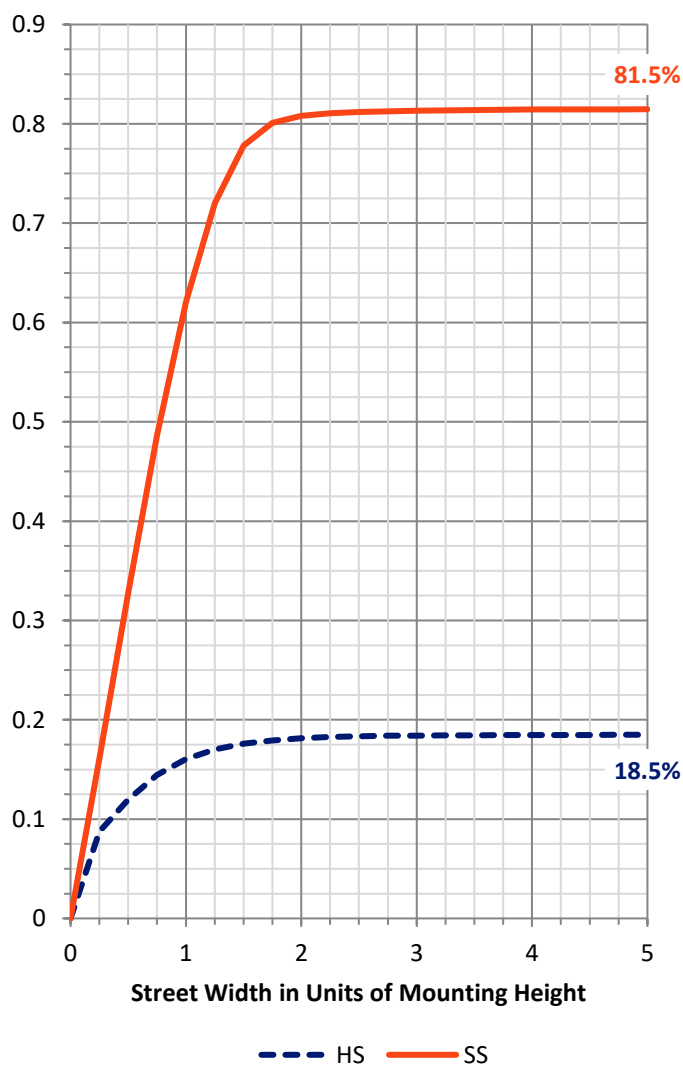
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	672.0	0.0	672.0
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	2946.0	0.0	2946.0
	% Fixture	81.4	0.0	81.4
Total	Lumens	3618.0	0.0	3618.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.9	2.3
10°-20°	219.5	6.1
20°-30°	384.8	10.6
30°-40°	634.4	17.5
40°-50°	923.2	25.5
50°-60°	1046.1	28.9
60°-70°	299.1	8.3
70°-80°	23.2	0.6
80°-90°	4.8	0.1
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°	3618.0	100.0
0°-180°	3618.0	100.0

Coefficient of Utilization



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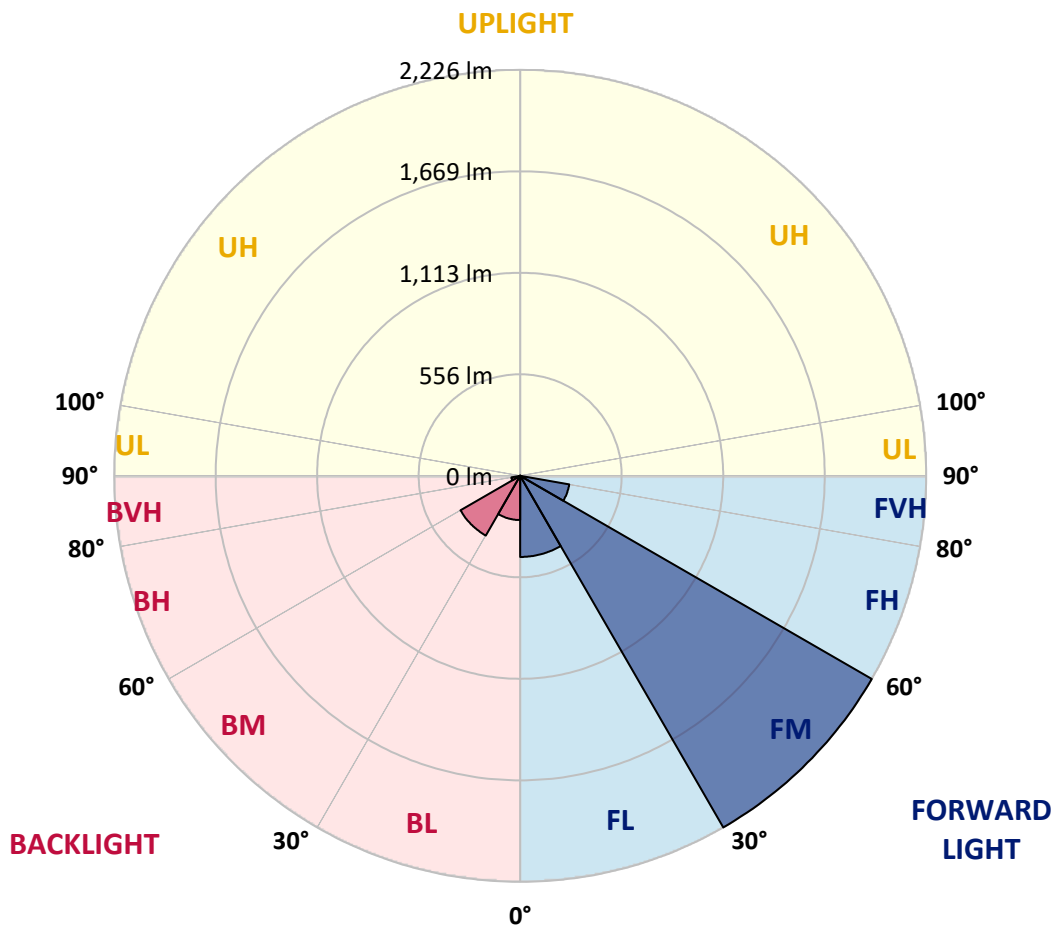
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	444.8	12.3			
FM (30°-60°)	2225.6	61.5			
FH (60°-80°)	273.3	7.6			G0/660
FVH (80°-90°)	2.4	0.1			G0/10
BL (0°-30°)	242.5	6.7	B1/500		
BM (30°-60°)	378.0	10.4	B1/1000		
BH (60°-80°)	49.1	1.4	B0/110		G0/110
BVH (80°-90°)	2.5	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	930.2	930.2	930.2	930.2	930.2	930.2	930.2	930.2	930.2	930.2	930.2
2.5°	874.6	883.0	884.3	894.6	894.0	911.4	916.6	917.3	928.9	923.1	938.0
5°	850.0	845.5	843.5	861.6	866.8	882.3	895.3	903.0	927.0	935.4	950.9
7.5°	828.0	828.0	829.3	845.5	843.5	863.6	877.1	901.1	936.0	943.1	961.9
10°	806.6	798.9	808.6	825.4	839.6	848.7	877.1	899.8	940.5	961.2	987.1
12.5°	795.6	799.5	800.8	813.1	828.6	855.8	871.3	908.8	972.9	985.2	1013.0
15°	864.9	857.1	838.3	827.3	840.3	853.2	892.0	930.2	989.7	1007.2	1038.2
17.5°	945.1	938.6	923.1	893.3	864.2	888.1	918.5	953.5	1007.8	1033.7	1079.6
20°	1049.9	1039.5	1024.0	965.8	940.5	914.7	947.0	988.4	1037.6	1060.9	1108.1
22.5°	1174.7	1174.7	1139.8	1069.3	1016.9	992.3	1005.9	1029.8	1070.6	1102.3	1148.8
25°	1304.7	1300.8	1269.1	1196.1	1107.4	1078.3	1093.8	1110.7	1121.7	1139.1	1170.2
27.5°	1453.5	1430.9	1390.8	1309.9	1231.6	1175.4	1192.2	1177.3	1163.7	1172.8	1217.4
30°	1554.4	1568.6	1517.5	1439.9	1366.2	1303.4	1306.7	1293.7	1231.6	1244.6	1271.1
32.5°	1659.2	1668.3	1639.8	1597.1	1523.4	1450.3	1423.7	1412.8	1366.2	1372.0	1346.1
35°	1746.5	1764.0	1738.8	1720.0	1698.7	1639.8	1566.7	1602.3	1527.2	1513.0	1445.7
37.5°	1826.7	1821.6	1851.3	1831.9	1827.4	1786.0	1705.8	1712.9	1662.4	1659.2	1581.6
40°	1898.5	1899.8	1940.6	1949.6	1931.5	1857.8	1741.4	1797.6	1838.4	1842.3	1742.7
42.5°	1958.1	1975.5	2010.5	2083.5	2056.4	1933.5	1778.2	1839.7	1991.0	2015.0	1895.3
45°	2009.8	2045.4	2088.7	2154.1	2138.5	2040.9	1870.1	1926.4	2154.1	2216.8	2038.9
47.5°	2013.0	2059.6	2106.8	2203.9	2223.3	2098.4	1965.2	2063.5	2283.4	2351.3	2143.7
50°	2000.1	2024.7	2119.1	2224.6	2268.6	2192.2	2098.4	2178.6	2408.9	2451.6	2196.7
52.5°	1846.8	1865.6	2055.1	2244.0	2350.1	2298.3	2275.0	2339.1	2537.0	2568.7	2246.6
55°	1539.5	1536.3	1797.0	2146.3	2387.6	2455.5	2441.3	2463.9	2685.1	2713.6	2258.8
57.5°	1053.1	1112.0	1337.1	1787.3	2157.9	2418.6	2433.5	2396.0	2512.4	2523.4	1969.1
60°	567.9	592.5	773.6	1192.8	1643.0	1971.0	2009.8	1941.9	1932.8	1901.8	1405.6
62.5°	225.8	238.0	340.9	590.6	895.3	1198.0	1281.4	1253.6	1194.1	1112.6	727.7
65°	107.4	115.1	169.5	276.2	397.2	499.4	582.8	608.7	448.9	404.3	240.0
67.5°	73.1	78.9	123.6	157.8	141.7	148.1	192.8	179.2	105.4	89.9	66.6
70°	55.6	59.5	99.0	107.4	63.4	44.6	49.8	46.6	43.3	44.0	43.3
72.5°	39.5	42.7	72.4	63.4	27.8	20.7	26.5	31.7	31.7	31.7	31.0
75°	23.9	27.2	42.0	24.6	11.0	11.0	16.8	21.3	22.6	23.3	22.0
77.5°	12.3	15.5	14.2	7.1	7.1	8.4	12.3	14.9	16.2	16.2	15.5
80°	2.6	2.6	2.6	3.9	7.1	9.1	12.3	13.6	15.5	15.5	14.2
82.5°	0.0	0.6	1.9	3.9	6.5	8.4	11.6	13.6	15.5	16.2	14.9
85°	0.0	0.6	1.3	2.6	4.5	5.2	4.5	3.9	3.9	3.9	3.9
87.5°	0.0	0.0	0.6	0.6	0.6	1.3	1.3	1.3	1.3	1.3	1.3
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°	930.2	930.2	930.2	930.2	930.2	930.2	930.2	930.2	930.2	930.2	930.2
2.5°	939.2	941.2	938.0	937.3	934.7	942.5	923.7	919.2	930.8	919.8	922.4
5°	951.5	956.1	950.2	940.5	926.3	904.3	885.6	861.0	849.3	840.9	839.6
7.5°	960.6	963.8	958.0	927.0	884.3	828.6	787.2	756.8	732.9	725.8	714.1
10°	997.5	998.1	969.0	900.4	817.0	743.9	680.5	633.9	610.0	595.1	588.6
12.5°	1022.0	1020.8	961.9	848.0	736.8	639.7	567.3	511.0	489.0	481.9	477.4
15°	1053.1	1046.0	945.1	794.3	633.3	528.5	463.2	424.3	422.4	417.9	422.4
17.5°	1077.7	1057.6	920.5	696.7	534.3	435.3	392.6	395.2	400.4	404.9	405.6
20°	1117.8	1076.4	864.2	611.3	442.5	373.2	372.6	384.2	397.2	402.3	407.5
22.5°	1148.2	1084.1	804.1	520.1	367.4	348.0	359.0	376.5	386.2	391.4	399.1
25°	1159.2	1062.8	723.8	428.9	331.2	336.4	353.2	364.8	377.1	382.9	379.7
27.5°	1170.2	1051.8	628.1	353.2	311.8	328.6	342.8	354.5	358.4	366.1	371.3
30°	1196.7	1013.6	542.1	305.3	302.1	323.4	333.8	337.7	348.0	352.5	352.5
32.5°	1218.0	998.8	450.9	282.7	300.8	326.0	327.3	327.3	328.6	325.4	324.1
35°	1262.0	947.7	369.4	269.1	300.1	326.7	329.9	318.9	289.1	277.5	274.3
37.5°	1316.4	914.7	309.2	265.9	304.7	334.4	339.6	298.2	259.4	240.6	237.4
40°	1382.3	891.4	269.7	264.6	315.0	352.5	337.0	282.0	231.6	204.4	203.1
42.5°	1459.3	870.0	243.2	263.9	328.0	371.3	334.4	268.4	203.1	185.0	187.6
45°	1520.8	858.4	225.1	259.4	332.5	382.3	336.4	244.5	191.5	179.8	181.1
47.5°	1568.6	833.8	210.2	251.6	331.8	386.2	318.9	234.8	185.6	188.9	192.1
50°	1569.9	800.8	191.5	234.8	322.1	379.1	298.9	225.8	184.4	197.9	204.4
52.5°	1552.5	754.2	171.4	210.9	299.5	354.5	280.7	221.9	178.5	177.2	185.0
55°	1490.4	666.9	137.8	170.8	252.9	292.4	264.6	214.8	161.1	146.2	147.5
57.5°	1204.5	478.0	101.6	122.3	179.2	214.1	238.7	211.5	144.9	124.2	124.8
60°	745.8	271.0	74.4	83.4	110.6	130.0	193.4	196.6	129.4	104.8	103.5
62.5°	382.9	133.9	57.6	58.9	67.9	76.3	132.6	165.0	117.1	99.6	99.6
65°	128.1	66.0	50.5	45.3	45.3	47.2	80.2	114.5	99.0	83.4	83.4
67.5°	55.0	49.2	44.0	39.5	36.2	34.3	45.3	66.6	73.7	63.4	60.8
70°	42.7	41.4	38.2	33.0	28.5	25.9	26.5	34.3	42.0	40.8	39.5
72.5°	31.7	31.7	30.4	25.9	22.0	18.8	17.5	18.1	20.1	20.7	21.3
75°	22.0	22.6	22.6	20.1	16.2	13.6	11.6	9.7	7.8	6.5	5.8
77.5°	14.9	15.5	16.8	14.9	12.3	9.1	7.1	5.2	3.2	1.3	1.3
80°	12.9	14.9	16.2	14.9	12.9	9.7	7.1	3.9	1.9	0.0	0.0
82.5°	13.6	14.9	16.8	14.2	12.3	9.1	7.1	4.5	1.9	0.6	0.0
85°	3.2	3.2	3.9	4.5	5.8	6.5	5.2	3.2	1.9	0.6	0.0
87.5°	1.3	1.3	1.3	1.3	1.3	0.6	0.6	0.6	0.6	0.0	0.0
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)