

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: P594538

Luminaire Tested: **ISS-PA1B-727-U-T3**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594538
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISS-PA1B-727-U-T3
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 2700K, 450mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4382 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

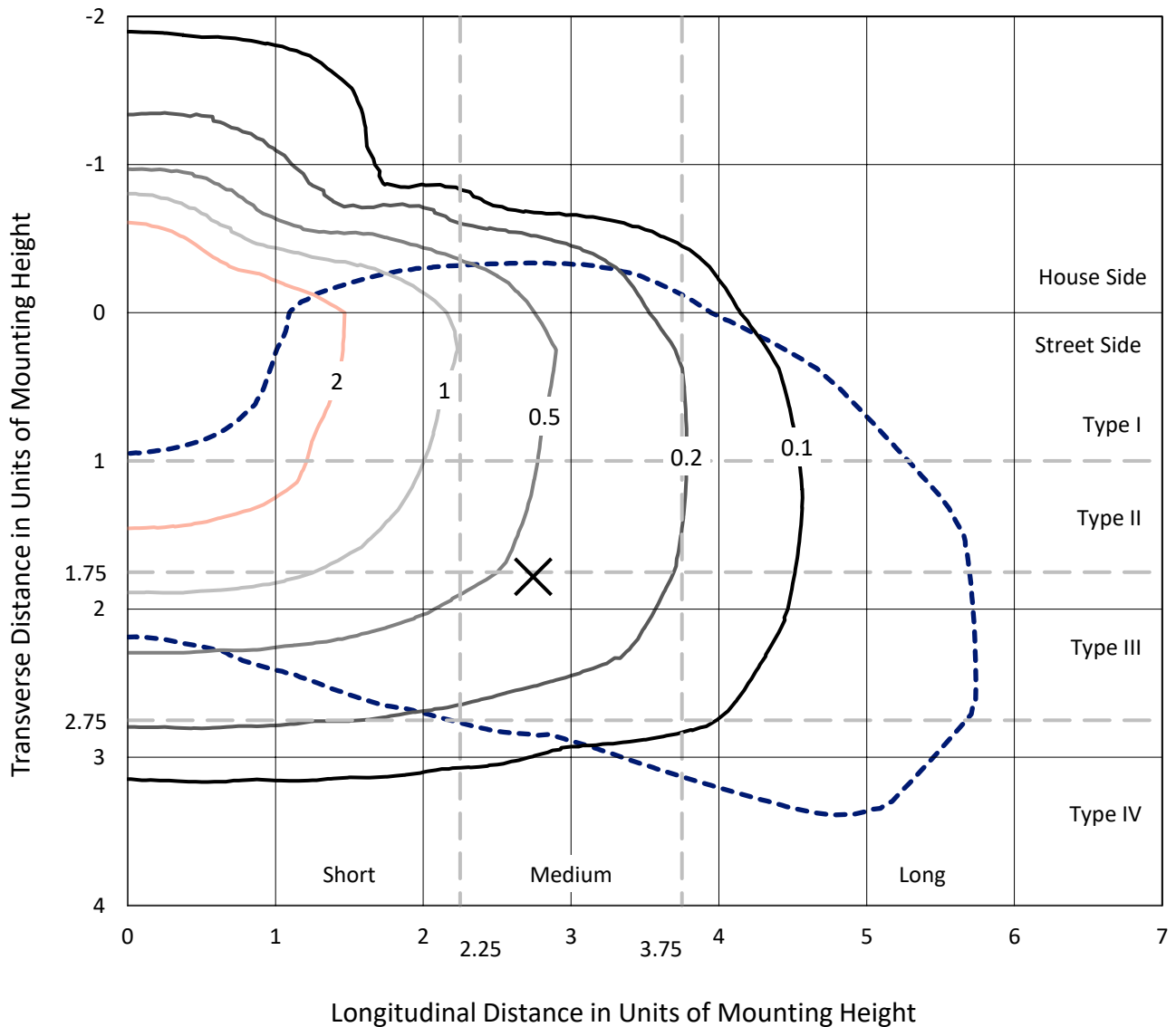
Input Watts (W): 36.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

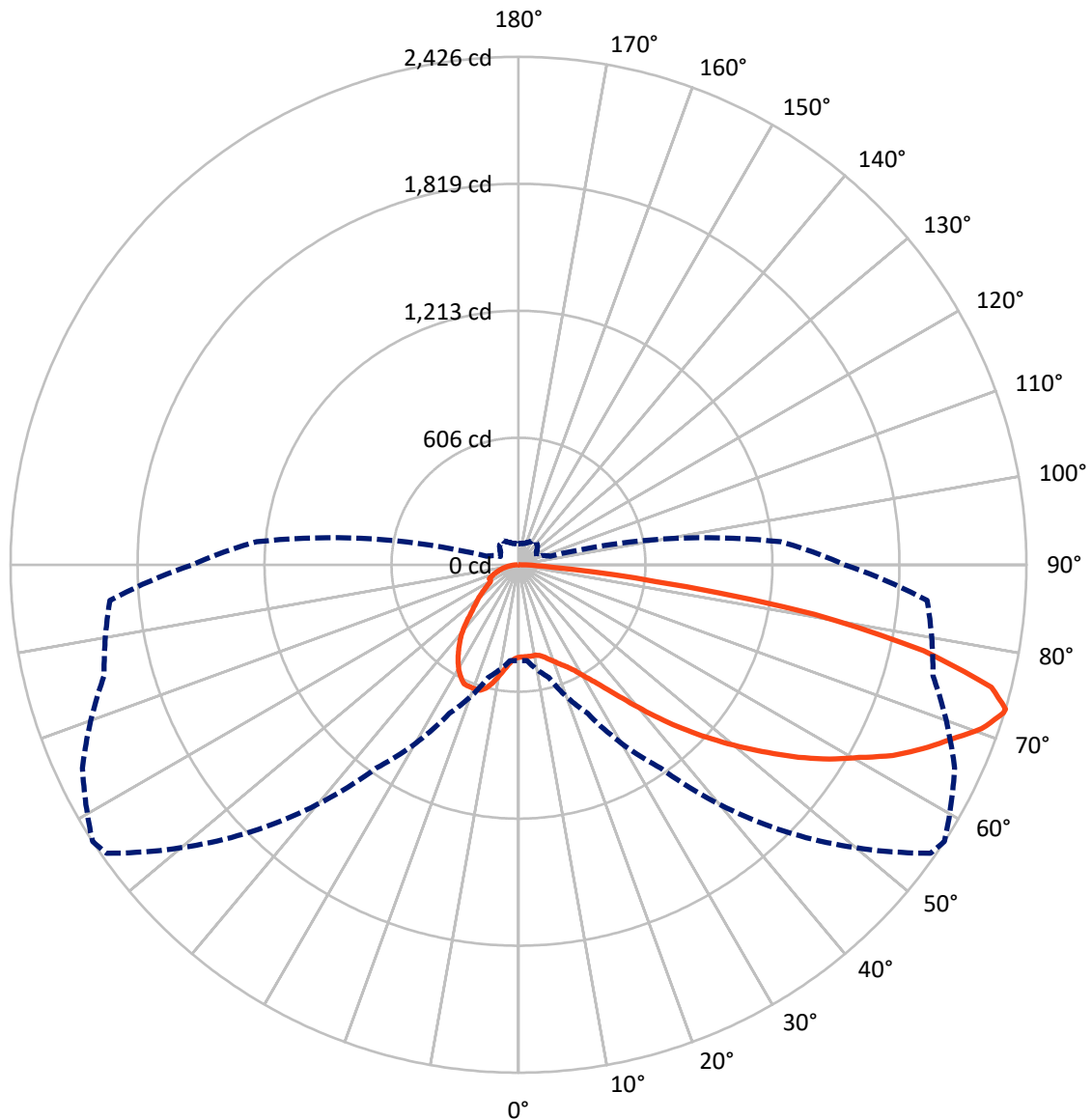
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3.8 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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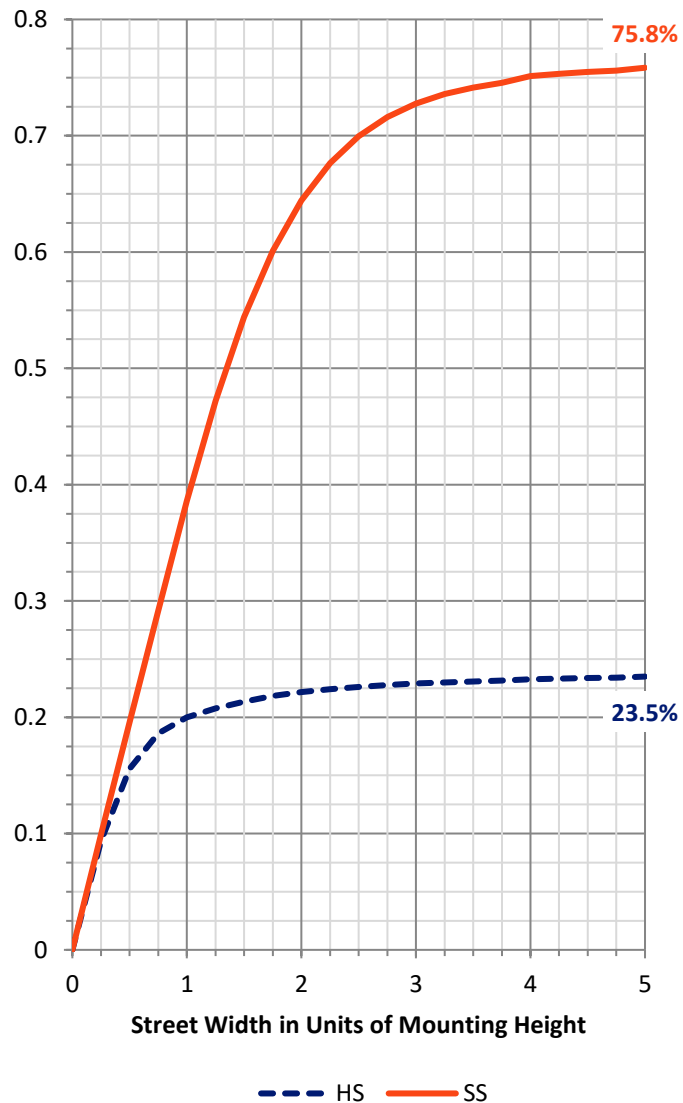
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1045.4	0.0	1045.4
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	3336.6	0.0	3336.6
	% Fixture	76.1	0.0	76.1
Total	Lumens	4382.0	0.0	4382.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.1	1.0
10°-20°	145.0	3.3
20°-30°	267.6	6.1
30°-40°	413.2	9.4
40°-50°	622.0	14.2
50°-60°	910.4	20.8
60°-70°	1075.1	24.5
70°-80°	769.7	17.6
80°-90°	134.9	3.1
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°	4382.0	100.0
0°-180°	4382.0	100.0

Coefficient of Utilization

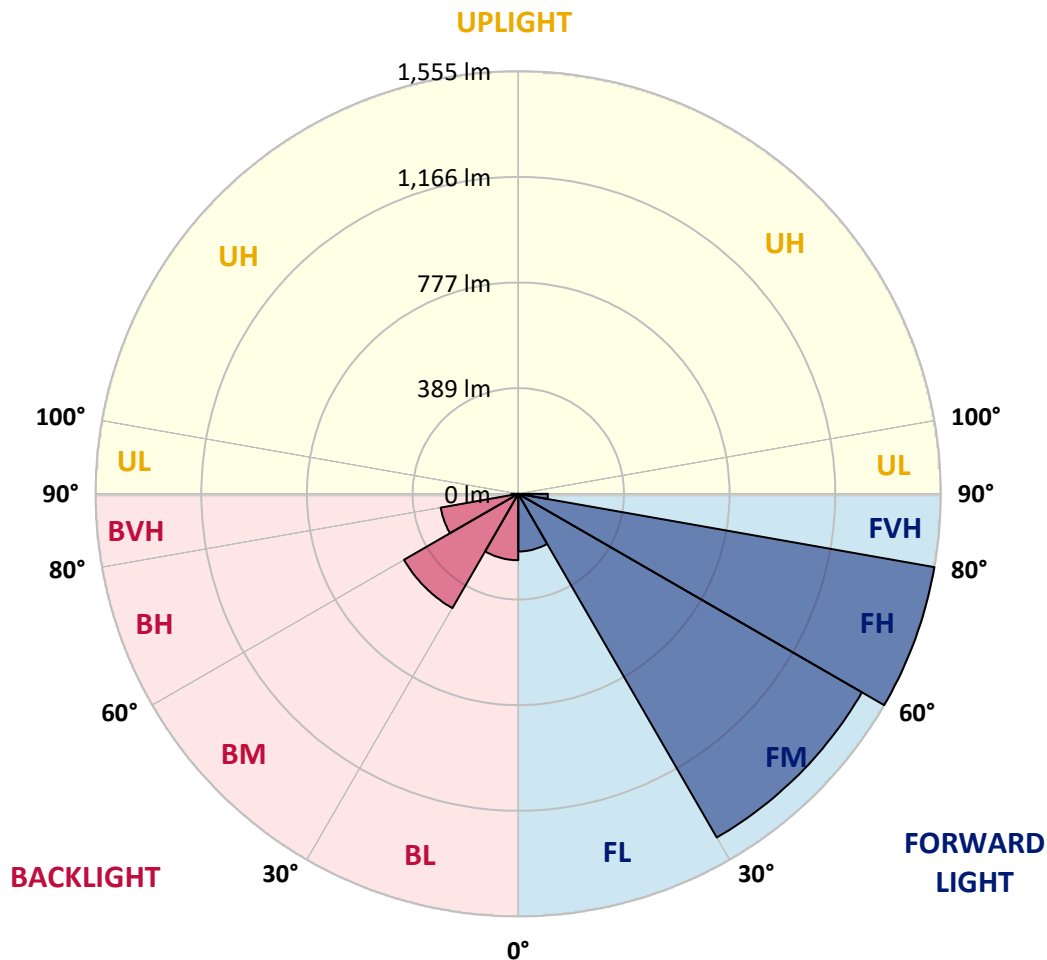


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	212.3	4.8			
FM (30°-60°)	1460.2	33.3			
FH (60°-80°)	1555.0	35.5			G1/1800
FVH (80°-90°)	109.1	2.5			G2/225
BL (0°-30°)	244.3	5.6	B1/500		
BM (30°-60°)	485.5	11.1	B1/1000		
BH (60°-80°)	289.8	6.6	B1/500		G1/500
BVH (80°-90°)	25.8	0.6			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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	441.5	441.5	441.5	441.5	441.5	441.5	441.5	441.5	441.5	441.5	441.5
2.5°	436.1	438.3	437.2	438.3	441.5	439.3	439.3	440.4	441.5	440.4	442.6
5°	417.9	418.9	421.1	425.4	432.9	435.0	440.4	440.4	442.6	444.7	447.9
7.5°	387.8	389.9	394.2	398.5	411.4	424.3	438.3	440.4	447.9	453.3	455.5
10°	382.4	384.6	385.6	392.1	405.0	417.9	435.0	439.3	453.3	461.9	471.6
12.5°	377.0	379.2	382.4	391.0	407.1	421.1	439.3	443.6	460.8	478.0	489.8
15°	381.3	382.4	385.6	394.2	410.3	429.7	453.3	456.5	475.9	497.3	515.6
17.5°	392.1	393.2	392.1	399.6	414.6	437.2	469.4	474.8	498.4	519.9	538.2
20°	416.8	417.9	413.6	413.6	424.3	446.9	486.6	494.1	523.1	546.8	565.0
22.5°	470.5	468.3	457.6	443.6	443.6	461.9	505.9	516.7	553.2	572.5	588.7
25°	546.8	546.8	529.6	503.8	486.6	484.5	528.5	540.3	583.3	606.9	616.6
27.5°	639.1	640.2	612.3	577.9	544.6	528.5	560.7	572.5	620.9	645.6	648.8
30°	720.8	721.8	693.9	661.7	620.9	585.4	603.7	616.6	672.4	691.8	681.0
32.5°	802.4	803.5	784.2	740.1	697.1	653.1	658.5	666.0	722.9	741.2	724.0
35°	873.3	876.5	857.2	823.9	778.8	739.0	729.4	730.4	782.0	793.8	771.3
37.5°	945.3	945.3	933.5	902.3	863.6	819.6	806.7	809.9	856.1	867.9	835.7
40°	1036.6	1040.9	1034.4	995.8	951.7	915.2	902.3	906.6	957.1	950.7	916.3
42.5°	1147.2	1156.9	1146.2	1104.3	1057.0	1016.2	1016.2	1016.2	1059.1	1060.2	1008.7
45°	1289.0	1289.0	1278.3	1241.8	1179.5	1138.6	1124.7	1127.9	1165.5	1169.8	1109.6
47.5°	1407.2	1417.9	1406.1	1379.2	1329.8	1291.2	1247.1	1241.8	1272.9	1272.9	1221.3
50°	1502.8	1522.1	1512.4	1524.3	1488.8	1469.5	1379.2	1364.2	1375.0	1385.7	1328.8
52.5°	1582.3	1597.3	1594.1	1628.5	1645.6	1656.4	1513.5	1489.9	1498.5	1497.4	1445.8
55°	1587.6	1593.0	1641.3	1718.7	1786.4	1836.8	1648.9	1623.1	1614.5	1610.2	1570.5
57.5°	1556.5	1559.7	1656.4	1747.7	1894.9	1952.9	1776.7	1750.9	1739.1	1724.1	1707.9
60°	1481.3	1497.4	1624.2	1764.9	1959.3	2043.1	1895.9	1869.1	1860.5	1828.3	1864.8
62.5°	1385.7	1393.2	1520.0	1729.4	1967.9	2081.8	2021.6	2005.5	1978.6	1932.5	2004.4
65°	1250.3	1249.3	1361.0	1625.2	1923.9	2101.1	2128.0	2119.4	2086.1	2006.6	2129.0
67.5°	1026.9	1051.6	1161.2	1440.5	1817.5	2120.4	2236.4	2225.7	2173.1	2073.2	2188.1
70°	783.1	798.1	922.7	1163.3	1605.9	2067.8	2342.8	2346.0	2250.4	2087.1	2162.3
72.5°	499.5	525.3	624.1	847.5	1285.8	1872.3	2406.2	2421.2	2293.4	2067.8	2002.3
73°	457.6	459.7	556.4	784.2	1185.9	1802.5	2401.9	2425.5	2297.7	2048.5	1958.2
75°	272.8	284.7	342.7	521.0	846.5	1448.0	2285.9	2333.1	2275.1	1962.5	1716.5
77.5°	127.8	136.4	168.6	275.0	460.8	871.2	1921.7	1977.6	2016.2	1717.6	1308.4
80°	67.7	68.7	82.7	138.6	247.1	358.8	1339.5	1431.9	1486.7	1293.3	879.8
82.5°	56.9	56.9	64.5	89.2	157.9	139.6	552.1	657.4	805.6	637.0	345.9
85°	46.2	47.3	64.5	66.6	112.8	72.0	132.1	165.4	312.6	281.4	38.7
87.5°	15.0	17.2	36.5	47.3	60.2	27.9	33.3	36.5	36.5	53.7	12.9
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°	441.5	441.5	441.5	441.5	441.5	441.5	441.5	441.5	441.5	441.5	441.5
2.5°	443.6	443.6	444.7	445.8	447.9	447.9	450.1	451.2	453.3	454.4	451.2
5°	447.9	450.1	452.2	458.7	466.2	472.6	479.1	484.5	489.8	493.0	492.0
7.5°	459.7	463.0	471.6	483.4	498.4	508.1	517.8	527.4	531.7	533.9	533.9
10°	475.9	482.3	498.4	517.8	534.9	550.0	557.5	563.9	566.1	568.2	566.1
12.5°	498.4	507.0	531.7	556.4	575.8	583.3	582.2	573.6	561.8	559.6	557.5
15°	527.4	538.2	566.1	595.1	610.1	600.5	575.8	567.2	565.0	571.5	569.3
17.5°	552.1	565.0	599.4	629.5	626.2	592.9	585.4	589.7	587.6	588.7	588.7
20°	575.8	594.0	630.5	651.0	623.0	601.5	595.1	589.7	583.3	585.4	583.3
22.5°	605.8	618.7	660.6	661.7	618.7	601.5	587.6	576.8	574.7	575.8	576.8
25°	629.5	649.9	686.4	654.2	618.7	584.4	565.0	562.9	563.9	570.4	568.2
27.5°	661.7	682.1	706.8	649.9	592.9	556.4	548.9	547.8	540.3	542.5	542.5
30°	691.8	716.5	717.6	649.9	560.7	532.8	522.1	502.7	486.6	489.8	488.8
32.5°	732.6	754.1	719.7	624.1	524.2	501.6	472.6	442.6	435.0	439.3	440.4
35°	779.9	797.0	721.8	581.1	487.7	457.6	405.0	387.8	386.7	389.9	393.2
37.5°	842.2	851.8	738.0	531.7	452.2	388.9	348.0	343.7	334.1	327.6	328.7
40°	918.4	906.6	769.1	487.7	410.3	326.6	309.4	297.5	279.3	261.0	264.2
42.5°	1003.3	970.0	778.8	452.2	353.4	287.9	271.8	253.5	230.9	211.6	210.5
45°	1094.6	1040.9	770.2	424.3	296.5	258.9	241.7	220.2	193.4	177.2	177.2
47.5°	1203.1	1108.6	743.3	401.7	256.7	233.1	211.6	190.1	171.9	156.8	156.8
50°	1322.3	1187.0	724.0	362.0	228.8	208.4	186.9	169.7	155.8	143.9	143.9
52.5°	1448.0	1261.1	707.9	304.0	204.1	185.8	170.8	156.8	145.0	130.0	127.8
55°	1575.8	1332.0	715.4	248.1	181.5	169.7	160.1	146.1	141.8	138.6	136.4
57.5°	1709.0	1409.3	733.7	203.0	162.2	161.1	156.8	166.5	176.2	169.7	166.5
60°	1813.2	1469.5	735.8	170.8	150.4	169.7	191.2	194.4	168.6	153.6	152.5
62.5°	1895.9	1526.4	685.3	148.2	153.6	199.8	204.1	171.9	146.1	139.6	139.6
65°	1938.9	1546.8	551.1	135.3	160.1	191.2	184.8	154.7	136.4	135.3	135.3
67.5°	1917.4	1530.7	385.6	121.4	141.8	165.4	165.4	141.8	125.7	131.1	128.9
70°	1814.3	1451.2	254.6	109.6	124.6	149.3	153.6	132.1	117.1	120.3	117.1
72.5°	1599.5	1309.4	167.6	96.7	107.4	132.1	142.9	121.4	107.4	106.3	103.1
73°	1557.6	1255.7	157.9	94.5	104.2	127.8	139.6	119.2	105.3	102.0	99.9
75°	1321.2	1047.3	119.2	84.9	92.4	114.9	130.0	111.7	96.7	92.4	90.2
77.5°	962.5	726.1	89.2	72.0	77.3	99.9	114.9	102.0	85.9	80.6	79.5
80°	600.5	395.3	66.6	58.0	61.2	83.8	101.0	91.3	74.1	67.7	66.6
82.5°	235.2	128.9	46.2	43.0	45.1	63.4	84.9	79.5	62.3	56.9	53.7
85°	38.7	44.0	30.1	29.0	29.0	45.1	64.5	61.2	41.9	36.5	32.2
87.5°	10.7	20.4	11.8	10.7	10.7	19.3	35.4	27.9	17.2	14.0	12.9
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)