

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: P594554

Luminaire Tested: **ISS-PA1B-735-U-T2U**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594554
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISS-PA1B-735-U-T2U
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 3500K, 450mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4937 lumens
Efficiency: N/A
Efficacy: 135.6 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

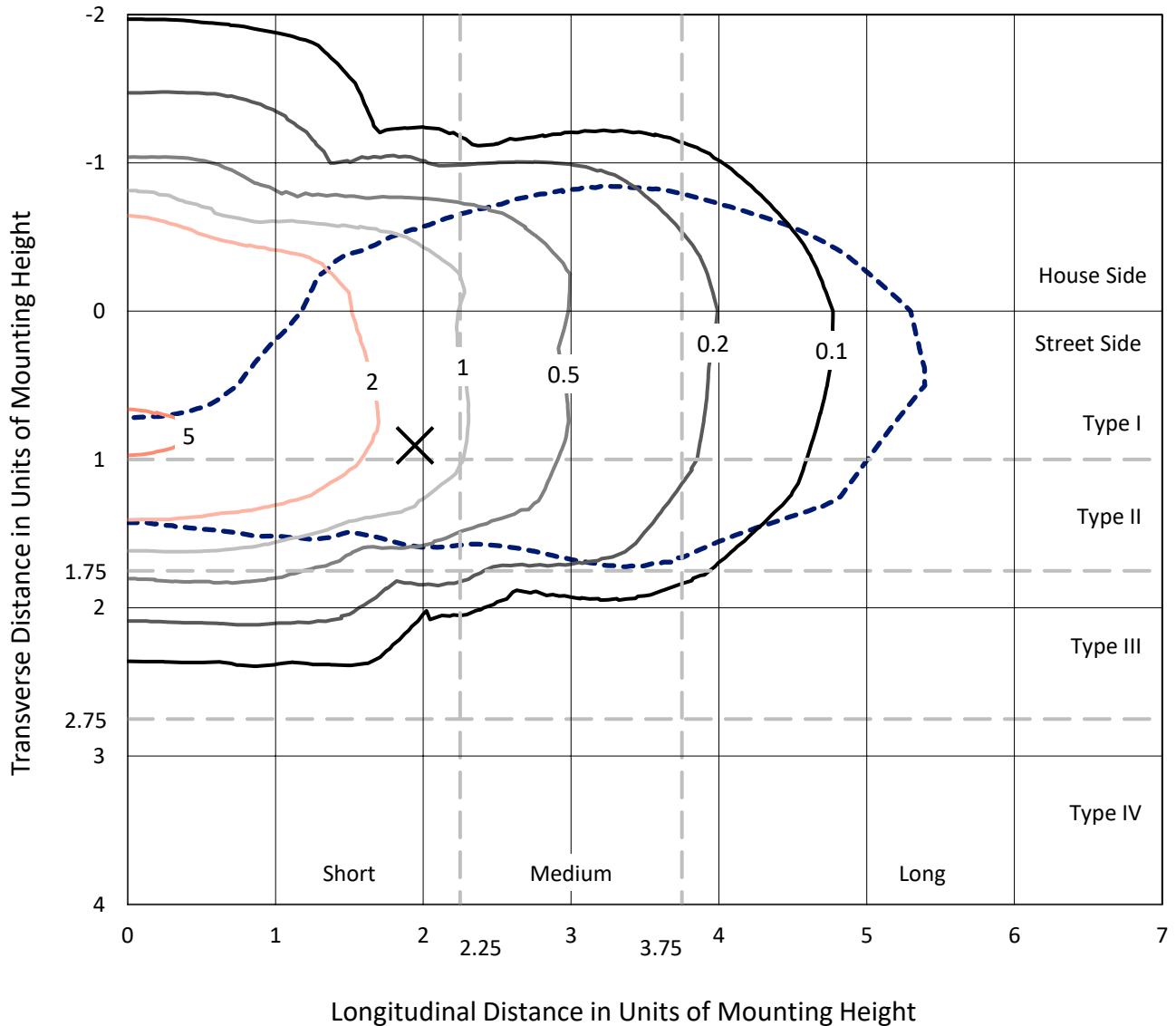
Input Watts (W): 36.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

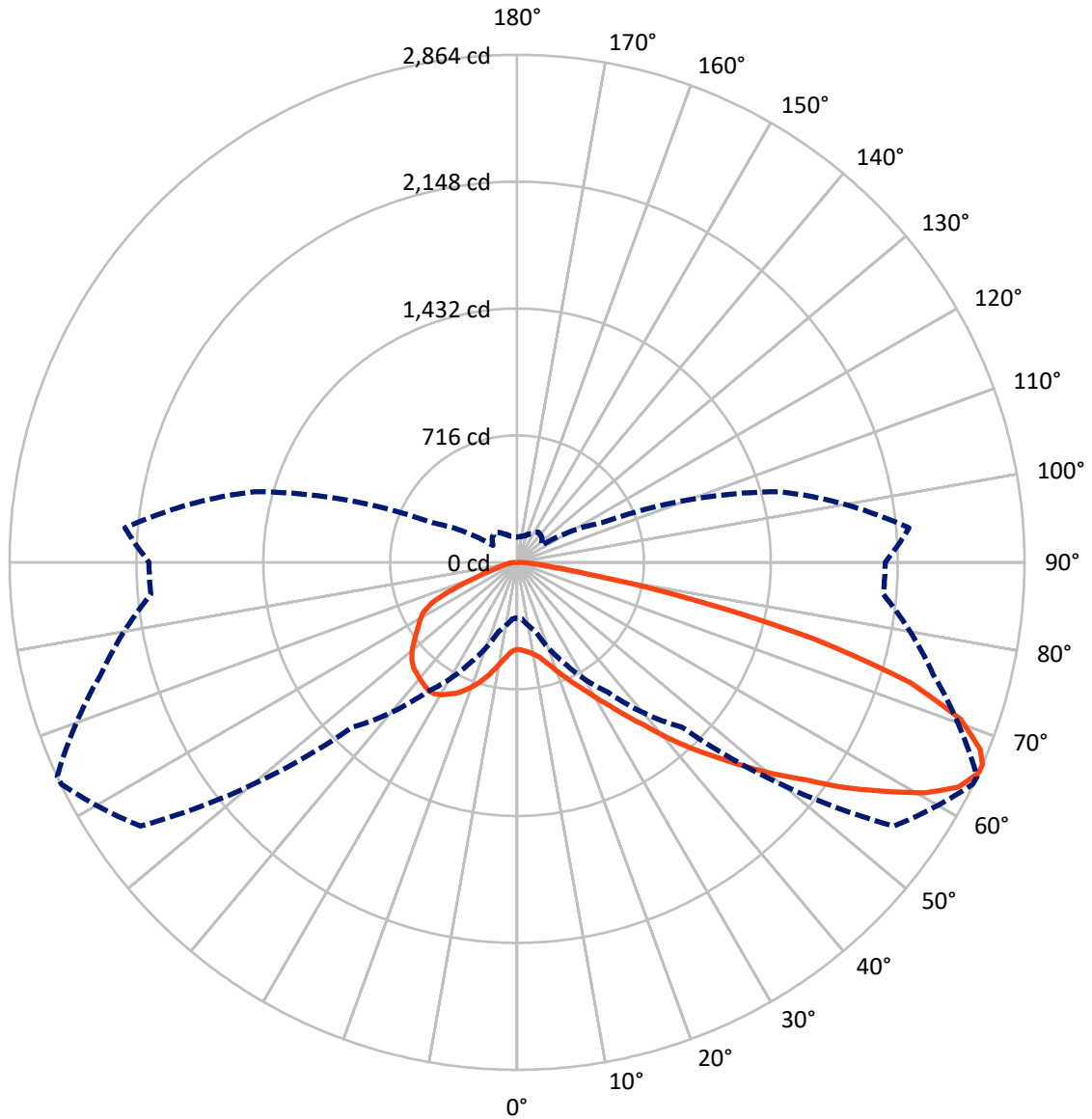
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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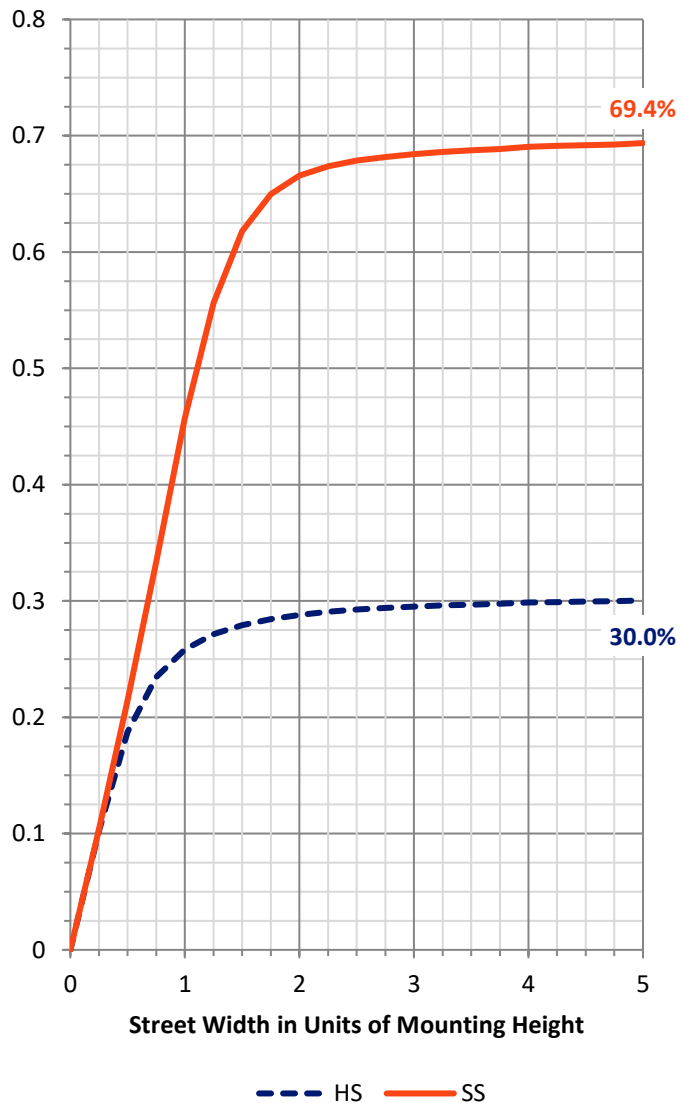
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1499.1	0.0	1499.1
	% Fixture	30.4	0.0	30.4
Street Side	Lumens	3437.9	0.0	3437.9
	% Fixture	69.6	0.0	69.6
Total	Lumens	4937.0	0.0	4937.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.2	1.0
10°-20°	175.0	3.5
20°-30°	342.7	6.9
30°-40°	559.9	11.3
40°-50°	888.8	18.0
50°-60°	1143.1	23.2
60°-70°	1030.8	20.9
70°-80°	639.4	13.0
80°-90°	107.1	2.2
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°	4937.0	100.0
0°-180°	4937.0	100.0

Coefficient of Utilization

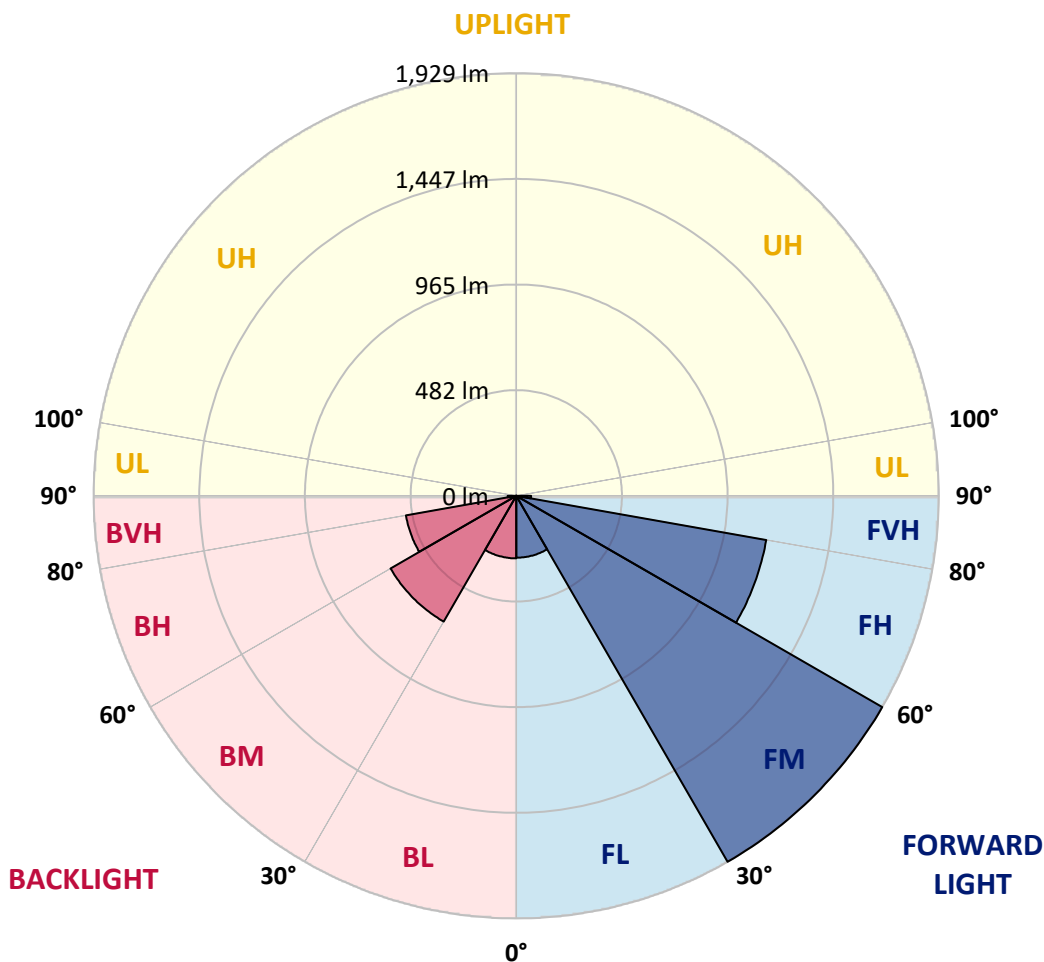


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	282.3	5.7			
FM (30°-60°)	1929.1	39.1			
FH (60°-80°)	1158.7	23.5			G1/1800
FVH (80°-90°)	67.8	1.4			G1/100
BL (0°-30°)	285.5	5.8	B1/500		
BM (30°-60°)	662.7	13.4	B1/1000		
BH (60°-80°)	511.5	10.4	B2/1000		G2/1000
BVH (80°-90°)	39.4	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	492.1	492.1	492.1	492.1	492.1	492.1	492.1	492.1	492.1	492.1	492.1
2.5°	493.3	494.5	495.7	493.3	495.7	496.9	494.5	494.5	495.7	493.3	493.3
5°	489.7	490.9	493.3	494.5	499.3	501.7	502.9	502.9	504.1	502.9	504.1
7.5°	480.1	480.1	484.9	487.3	494.5	502.9	507.7	514.9	514.9	516.0	519.6
10°	489.7	489.7	493.3	496.9	502.9	510.1	517.2	525.6	528.0	536.4	541.2
12.5°	504.1	506.5	511.3	516.0	523.2	531.6	537.6	546.0	547.2	555.6	565.1
15°	528.0	530.4	532.8	538.8	548.4	559.2	569.9	575.9	578.3	583.1	590.3
17.5°	563.9	566.3	567.5	571.1	578.3	592.7	608.2	613.0	615.4	615.4	621.4
20°	625.0	623.8	621.4	614.2	614.2	627.4	649.0	657.3	659.7	654.9	651.3
22.5°	695.6	694.4	684.9	676.5	670.5	672.9	694.4	708.8	707.6	698.0	683.7
25°	787.8	790.2	774.7	753.1	735.2	730.4	743.5	757.9	760.3	742.3	718.4
27.5°	898.0	894.4	886.0	851.3	816.6	795.0	802.2	817.8	819.0	799.8	761.5
30°	1027.3	1021.3	999.8	963.8	910.0	880.0	874.0	887.2	890.8	858.5	803.4
32.5°	1171.0	1165.0	1137.5	1082.4	1023.7	973.4	954.3	972.2	969.8	932.7	856.1
35°	1344.6	1343.4	1293.1	1224.9	1150.6	1083.6	1057.2	1057.2	1064.4	1009.3	923.1
37.5°	1576.9	1586.5	1512.2	1405.7	1301.5	1211.7	1167.4	1165.0	1166.2	1106.3	998.6
40°	1786.4	1782.8	1739.7	1640.3	1488.3	1373.3	1307.5	1293.1	1296.7	1220.1	1096.8
42.5°	1907.3	1910.9	1900.2	1857.1	1724.2	1579.3	1466.7	1428.4	1429.6	1333.8	1190.1
45°	1982.8	1986.4	1985.2	2006.7	1954.0	1817.5	1657.1	1568.5	1563.7	1463.1	1300.3
47.5°	2025.9	2028.3	2043.8	2088.1	2131.2	2100.1	1867.8	1724.2	1714.6	1584.1	1410.5
50°	1978.0	1979.2	2041.4	2146.8	2252.2	2346.8	2083.3	1878.6	1876.2	1718.2	1518.2
52.5°	1726.5	1748.1	1885.8	2106.1	2342.0	2521.6	2332.4	2060.6	2040.2	1845.1	1626.0
55°	1409.3	1418.8	1576.9	1857.1	2325.2	2629.3	2520.4	2257.0	2242.6	1986.4	1731.3
57.5°	1100.3	1109.9	1297.9	1531.4	2069.0	2623.3	2653.3	2468.9	2436.6	2109.7	1836.7
60°	710.0	739.9	957.9	1245.2	1675.1	2441.3	2720.3	2672.4	2642.5	2231.8	1926.5
62.5°	482.5	487.3	623.8	923.1	1253.6	1984.0	2715.5	2798.2	2793.4	2353.9	2016.3
65°	313.7	320.9	403.5	625.0	896.8	1317.1	2595.8	2859.2	2864.0	2429.4	2075.0
66°	265.8	270.6	334.1	525.6	785.4	1044.1	2490.4	2854.4	2864.0	2464.1	2092.9
67.5°	231.1	234.7	267.0	387.9	641.8	750.7	2216.3	2791.0	2818.5	2496.4	2115.7
70°	198.8	203.5	233.5	264.6	458.6	438.2	1403.3	2628.1	2655.7	2512.0	2130.0
72.5°	164.0	167.6	197.6	239.5	332.9	294.5	619.0	2249.8	2319.2	2454.5	2107.3
75°	129.3	131.7	159.2	200.0	255.0	229.9	269.4	1649.9	1737.3	2163.6	2018.7
77.5°	100.6	101.8	123.3	155.7	233.5	178.4	166.4	803.4	1016.5	1671.5	1778.0
80°	69.4	71.8	91.0	117.3	171.2	141.3	111.4	313.7	398.7	1109.9	1348.2
82.5°	45.5	46.7	62.3	88.6	113.7	135.3	73.0	152.1	167.6	511.3	584.3
85°	31.1	31.1	44.3	55.1	77.8	89.8	47.9	80.2	87.4	194.0	70.6
87.5°	15.6	15.6	21.6	28.7	37.1	34.7	28.7	28.7	28.7	63.5	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°	492.1	492.1	492.1	492.1	492.1	492.1	492.1	492.1	492.1	492.1	492.1
2.5°	494.5	494.5	495.7	496.9	498.1	498.1	499.3	499.3	498.1	499.3	500.5
5°	505.3	506.5	508.9	512.5	518.4	524.4	530.4	534.0	537.6	538.8	536.4
7.5°	522.0	524.4	532.8	542.4	552.0	566.3	574.7	579.5	581.9	584.3	581.9
10°	543.6	548.4	560.3	577.1	593.9	611.8	621.4	628.6	629.8	632.2	629.8
12.5°	568.7	577.1	595.1	619.0	639.4	657.3	664.5	659.7	649.0	644.2	643.0
15°	598.7	607.0	632.2	662.1	686.1	694.4	683.7	668.1	656.1	654.9	653.7
17.5°	625.0	637.0	671.7	702.8	725.6	717.2	688.5	678.9	675.3	680.1	678.9
20°	658.5	668.1	702.8	741.1	753.1	720.8	700.4	694.4	690.9	690.9	688.5
22.5°	686.1	693.3	735.2	777.1	769.9	723.2	708.8	696.8	684.9	683.7	680.1
25°	718.4	720.8	765.1	810.6	772.3	725.6	700.4	680.1	668.1	664.5	665.7
27.5°	748.3	754.3	792.6	833.3	766.3	712.4	671.7	645.4	627.4	626.2	626.2
30°	786.6	786.6	821.4	858.5	753.1	678.9	625.0	586.7	572.3	571.1	568.7
32.5°	829.7	822.6	856.1	876.4	724.4	633.4	561.5	518.4	495.7	490.9	487.3
35°	889.6	874.0	898.0	880.0	695.6	568.7	481.3	432.2	415.5	408.3	408.3
37.5°	959.1	936.3	961.5	869.3	651.3	493.3	397.5	360.4	342.4	331.7	335.3
40°	1040.5	1011.7	1026.1	857.3	603.5	409.5	328.1	305.3	283.8	269.4	269.4
42.5°	1136.3	1088.4	1099.1	845.3	535.2	336.4	283.8	268.2	251.4	237.1	240.7
45°	1228.5	1181.8	1171.0	833.3	463.4	287.4	265.8	255.0	239.5	222.7	222.7
47.5°	1335.0	1275.2	1234.4	811.8	392.7	271.8	270.6	255.0	225.1	201.2	198.8
50°	1435.6	1380.5	1291.9	779.5	353.2	285.0	269.4	232.3	203.5	188.0	186.8
52.5°	1542.2	1484.7	1338.6	739.9	332.9	279.0	247.8	213.1	191.6	176.0	172.4
55°	1647.5	1617.6	1380.5	701.6	300.5	259.8	229.9	201.2	178.4	164.0	161.6
57.5°	1767.3	1755.3	1416.4	663.3	250.2	235.9	216.7	192.8	171.2	160.4	159.2
60°	1871.4	1913.3	1459.5	634.6	213.1	217.9	210.7	191.6	176.0	164.0	164.0
62.5°	1981.6	2065.4	1497.9	597.5	185.6	207.1	211.9	190.4	170.0	159.2	159.2
65°	2077.4	2221.0	1537.4	529.2	166.4	198.8	208.3	177.2	153.3	144.9	142.5
66°	2118.1	2265.3	1549.3	487.3	159.2	192.8	202.3	170.0	146.1	138.9	137.7
67.5°	2166.0	2334.8	1563.7	397.5	148.5	179.6	189.2	159.2	134.1	129.3	126.9
70°	2233.0	2349.2	1555.3	259.8	129.3	154.5	168.8	142.5	119.7	116.1	112.5
72.5°	2240.2	2251.0	1471.5	164.0	112.5	132.9	148.5	128.1	105.4	101.8	99.4
75°	2121.7	1994.7	1245.2	117.3	99.4	117.3	130.5	111.4	87.4	82.6	80.2
77.5°	1811.6	1582.9	895.6	87.4	86.2	100.6	109.0	97.0	73.0	69.4	68.2
80°	1271.6	1074.0	449.0	65.9	68.2	83.8	91.0	81.4	61.1	56.3	53.9
82.5°	514.9	456.2	154.5	49.1	51.5	63.5	77.8	67.1	46.7	40.7	35.9
85°	58.7	99.4	67.1	33.5	34.7	43.1	52.7	40.7	27.5	22.7	19.2
87.5°	12.0	21.6	23.9	13.2	12.0	16.8	23.9	14.4	9.6	3.6	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)