

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: P594601

Luminaire Tested: **ISS-PA1B-830-U-T3**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594601
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-830-U-T3
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 80 CRI, 3000K, 450mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4164 lumens
Efficiency: N/A
Efficacy: 114.4 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

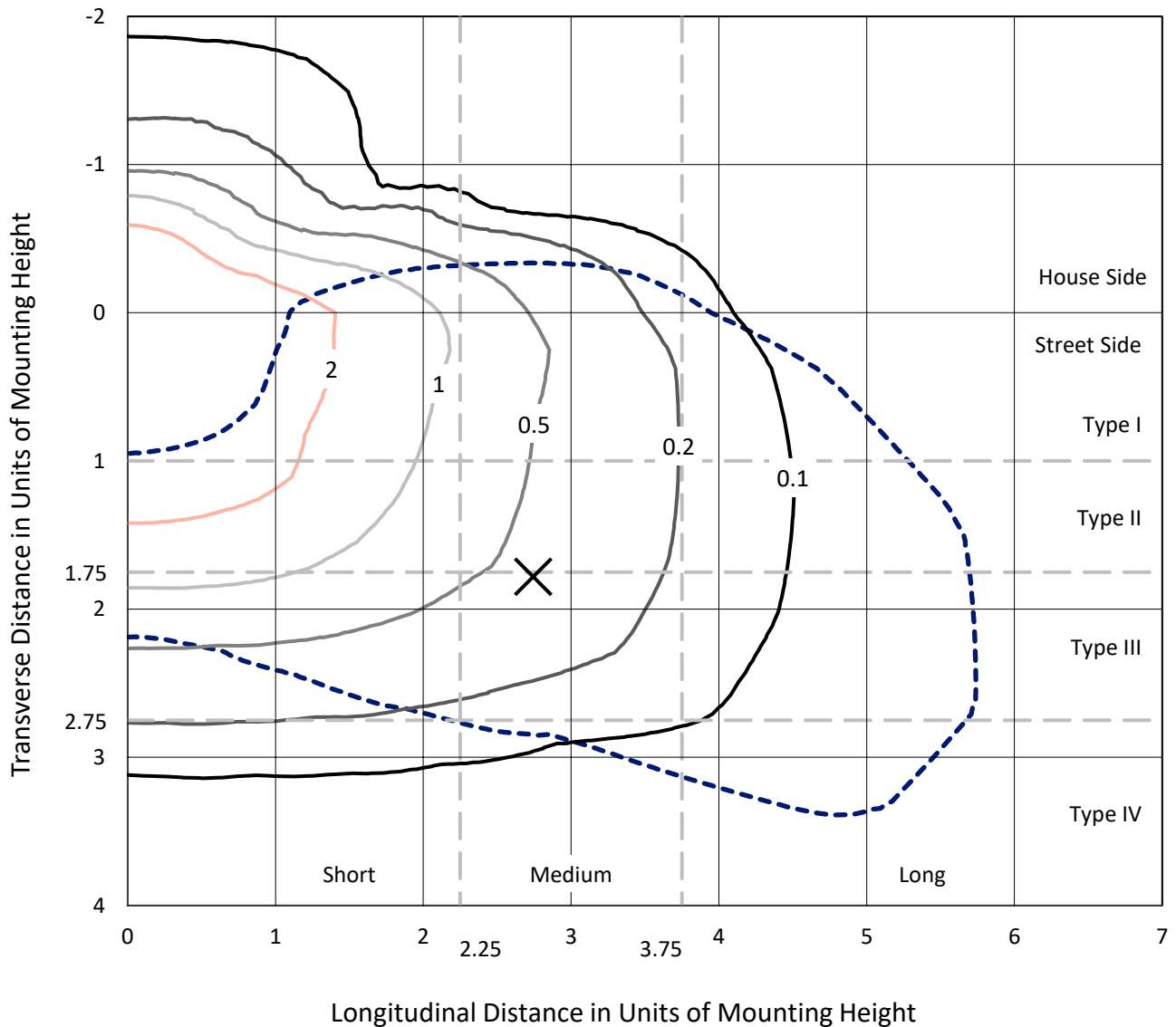
Input Watts (W): 36.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

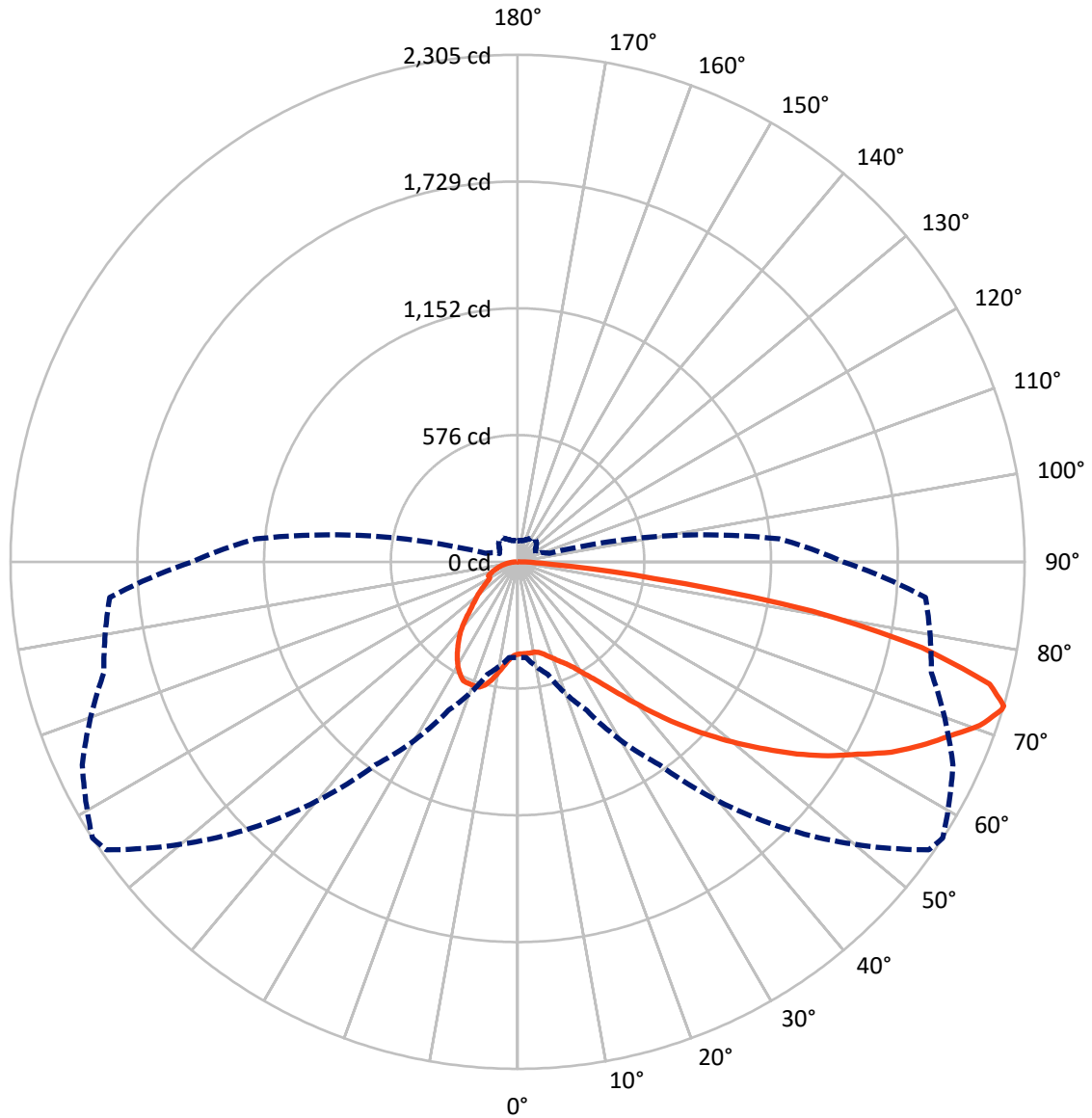
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3.6 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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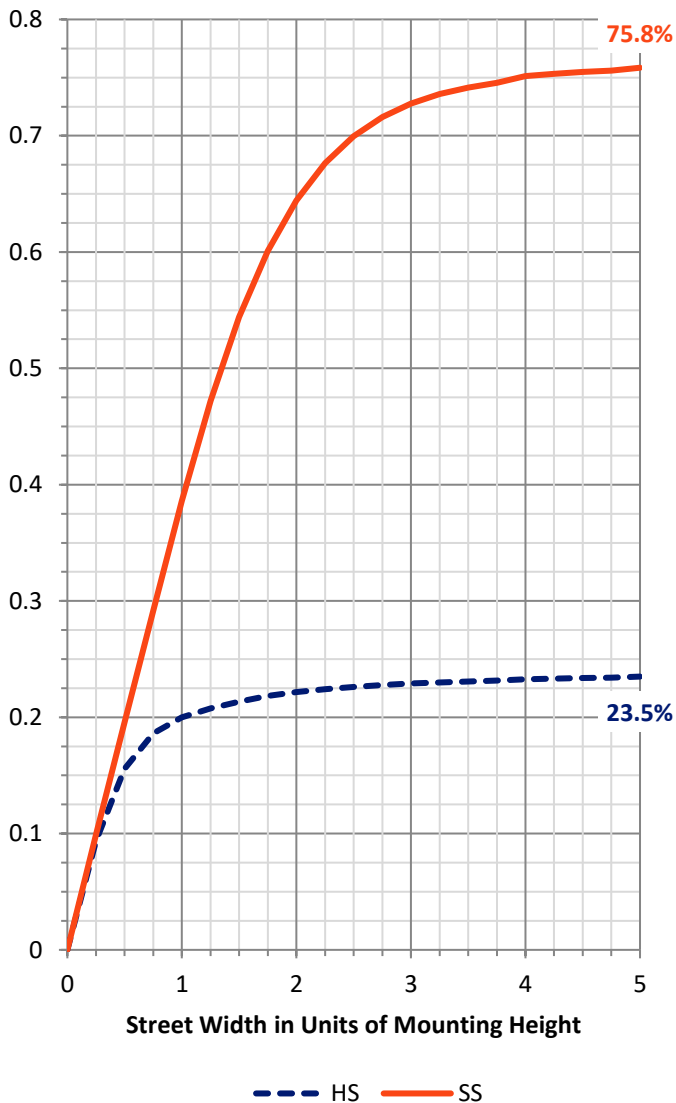
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	993.4	0.0	993.4
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	3170.6	0.0	3170.6
	% Fixture	76.1	0.0	76.1
Total	Lumens	4164.0	0.0	4164.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.9	1.0
10°-20°	137.8	3.3
20°-30°	254.3	6.1
30°-40°	392.7	9.4
40°-50°	591.1	14.2
50°-60°	865.1	20.8
60°-70°	1021.6	24.5
70°-80°	731.4	17.6
80°-90°	128.2	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°	4164.0	100.0
0°-180°	4164.0	100.0

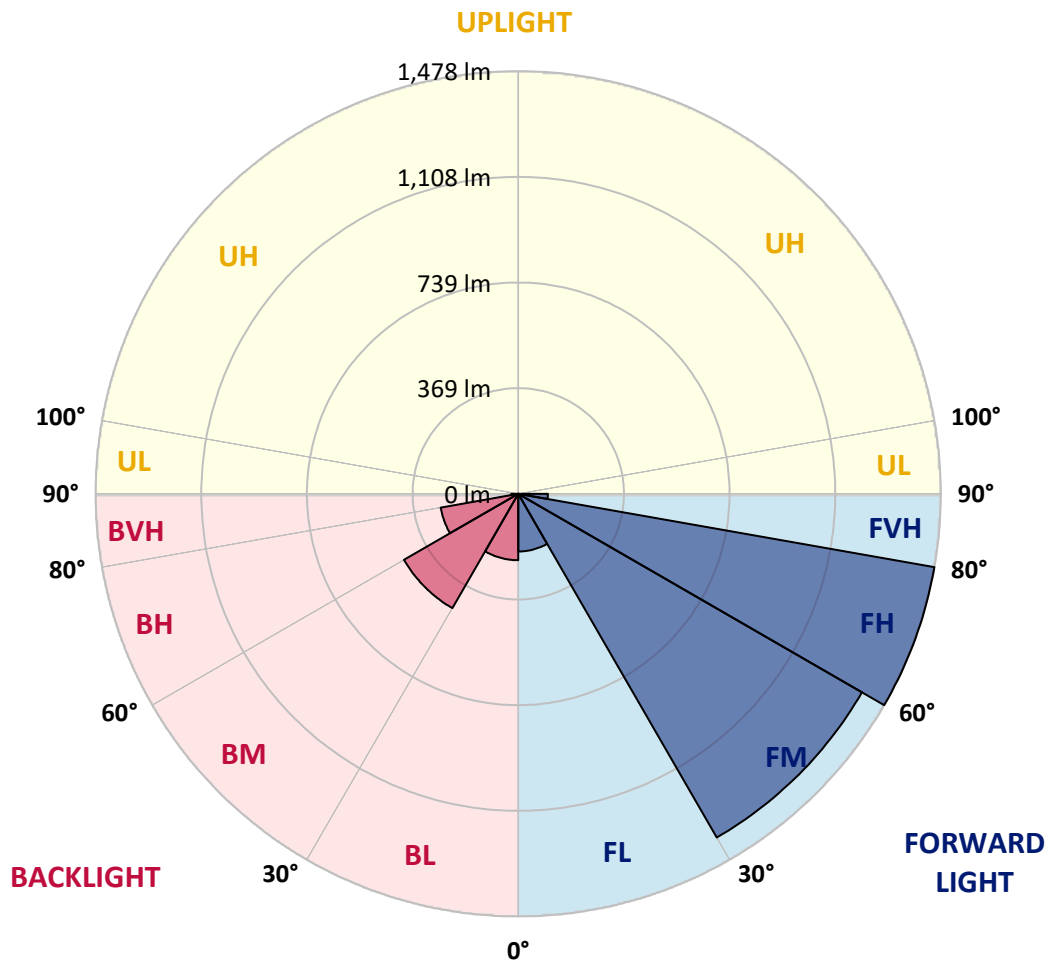


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	201.8	4.8			
FM (30°-60°)	1387.6	33.3			
FH (60°-80°)	1477.6	35.5			G1/1800
FVH (80°-90°)	103.7	2.5			G2/225
BL (0°-30°)	232.2	5.6	B1/500		
BM (30°-60°)	461.3	11.1	B1/1000		
BH (60°-80°)	275.4	6.6	B1/500		G1/500
BVH (80°-90°)	24.5	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°	419.5	419.5	419.5	419.5	419.5	419.5	419.5	419.5	419.5	419.5	419.5
2.5°	414.4	416.5	415.4	416.5	419.5	417.5	417.5	418.5	419.5	418.5	420.5
5°	397.1	398.1	400.1	404.2	411.4	413.4	418.5	418.5	420.5	422.6	425.6
7.5°	368.5	370.5	374.6	378.7	390.9	403.2	416.5	418.5	425.6	430.8	432.8
10°	363.4	365.4	366.4	372.6	384.8	397.1	413.4	417.5	430.8	438.9	448.1
12.5°	358.3	360.3	363.4	371.5	386.9	400.1	417.5	421.6	437.9	454.2	465.5
15°	362.4	363.4	366.4	374.6	389.9	408.3	430.8	433.8	452.2	472.6	490.0
17.5°	372.6	373.6	372.6	379.7	394.0	415.4	446.1	451.2	473.6	494.0	511.4
20°	396.0	397.1	393.0	393.0	403.2	424.6	462.4	469.5	497.1	519.6	536.9
22.5°	447.1	445.0	434.8	421.6	421.6	438.9	480.8	491.0	525.7	544.1	559.4
25°	519.6	519.6	503.2	478.7	462.4	460.4	502.2	513.4	554.3	576.7	585.9
27.5°	607.3	608.4	581.8	549.2	517.5	502.2	532.8	544.1	590.0	613.5	616.5
30°	684.9	685.9	659.4	628.8	590.0	556.3	573.7	585.9	639.0	657.4	647.2
32.5°	762.5	763.5	745.1	703.3	662.5	620.6	625.7	632.9	687.0	704.3	688.0
35°	829.9	832.9	814.6	782.9	740.0	702.3	693.1	694.1	743.1	754.3	732.9
37.5°	898.3	898.3	887.0	857.4	820.7	778.8	766.6	769.6	813.5	824.8	794.1
40°	985.0	989.1	983.0	946.2	904.4	869.7	857.4	861.5	909.5	903.4	870.7
42.5°	1090.2	1099.3	1089.1	1049.3	1004.4	965.6	965.6	965.6	1006.5	1007.5	958.5
45°	1224.9	1224.9	1214.7	1180.0	1120.8	1082.0	1068.7	1071.8	1107.5	1111.6	1054.4
47.5°	1337.2	1347.4	1336.2	1310.6	1263.7	1226.9	1185.1	1180.0	1209.6	1209.6	1160.6
50°	1428.0	1446.4	1437.2	1448.4	1414.7	1396.4	1310.6	1296.3	1306.5	1316.8	1262.7
52.5°	1503.6	1517.8	1514.8	1547.4	1563.8	1574.0	1438.2	1415.8	1423.9	1422.9	1373.9
55°	1508.7	1513.8	1559.7	1633.2	1697.5	1745.5	1566.8	1542.3	1534.2	1530.1	1492.3
57.5°	1479.1	1482.1	1574.0	1660.7	1800.6	1855.7	1688.3	1663.8	1652.6	1638.3	1623.0
60°	1407.6	1422.9	1543.4	1677.1	1861.8	1941.5	1801.6	1776.1	1767.9	1737.3	1772.0
62.5°	1316.8	1323.9	1444.3	1643.4	1870.0	1978.2	1921.0	1905.7	1880.2	1836.3	1904.7
65°	1188.1	1187.1	1293.3	1544.4	1828.1	1996.6	2022.1	2013.9	1982.3	1906.7	2023.1
67.5°	975.8	999.3	1103.4	1368.8	1727.1	2014.9	2125.2	2115.0	2065.0	1970.0	2079.3
70°	744.1	758.4	876.8	1105.5	1526.0	1964.9	2226.2	2229.3	2138.5	1983.3	2054.8
72.5°	474.6	499.1	593.1	805.4	1221.8	1779.2	2286.5	2300.8	2179.3	1964.9	1902.7
73°	434.8	436.9	528.7	745.1	1126.9	1712.8	2282.4	2304.8	2183.4	1946.6	1860.8
75°	259.3	270.5	325.6	495.1	804.3	1376.0	2172.1	2217.1	2161.9	1864.9	1631.1
77.5°	121.5	129.6	160.3	261.3	437.9	827.8	1826.1	1879.2	1915.9	1632.2	1243.3
80°	64.3	65.3	78.6	131.7	234.8	340.9	1272.9	1360.6	1412.7	1229.0	836.0
82.5°	54.1	54.1	61.2	84.7	150.0	132.7	524.7	624.7	765.6	605.3	328.7
85°	43.9	44.9	61.2	63.3	107.2	68.4	125.6	157.2	297.0	267.4	36.7
87.5°	14.3	16.3	34.7	44.9	57.2	26.5	31.6	34.7	34.7	51.0	12.2
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°	419.5	419.5	419.5	419.5	419.5	419.5	419.5	419.5	419.5	419.5	419.5
2.5°	421.6	421.6	422.6	423.6	425.6	425.6	427.7	428.7	430.8	431.8	428.7
5°	425.6	427.7	429.7	435.9	443.0	449.1	455.3	460.4	465.5	468.5	467.5
7.5°	436.9	439.9	448.1	459.3	473.6	482.8	492.0	501.2	505.3	507.3	507.3
10°	452.2	458.3	473.6	492.0	508.3	522.6	529.8	535.9	537.9	540.0	537.9
12.5°	473.6	481.8	505.3	528.7	547.1	554.3	553.2	545.1	533.8	531.8	529.8
15°	501.2	511.4	537.9	565.5	579.8	570.6	547.1	539.0	536.9	543.0	541.0
17.5°	524.7	536.9	569.6	598.2	595.1	563.4	556.3	560.4	558.3	559.4	559.4
20°	547.1	564.5	599.2	618.6	592.0	571.6	565.5	560.4	554.3	556.3	554.3
22.5°	575.7	587.9	627.8	628.8	587.9	571.6	558.3	548.1	546.1	547.1	548.1
25°	598.2	617.5	652.3	621.6	587.9	555.3	536.9	534.9	535.9	542.0	540.0
27.5°	628.8	648.2	671.6	617.5	563.4	528.7	521.6	520.6	513.4	515.5	515.5
30°	657.4	680.8	681.9	617.5	532.8	506.3	496.1	477.7	462.4	465.5	464.4
32.5°	696.1	716.6	683.9	593.1	498.1	476.7	449.1	420.5	413.4	417.5	418.5
35°	741.1	757.4	685.9	552.2	463.4	434.8	384.8	368.5	367.5	370.5	373.6
37.5°	800.3	809.4	701.2	505.3	429.7	369.5	330.7	326.6	317.5	311.3	312.3
40°	872.7	861.5	730.9	463.4	389.9	310.3	294.0	282.7	265.4	248.0	251.1
42.5°	953.4	921.7	740.0	429.7	335.8	273.6	258.2	240.9	219.5	201.1	200.1
45°	1040.1	989.1	731.9	403.2	281.7	246.0	229.7	209.3	183.7	168.4	168.4
47.5°	1143.2	1053.4	706.4	381.8	244.0	221.5	201.1	180.7	163.3	149.0	149.0
50°	1256.5	1127.9	688.0	344.0	217.4	198.0	177.6	161.3	148.0	136.8	136.8
52.5°	1376.0	1198.4	672.7	288.9	193.9	176.6	162.3	149.0	137.8	123.5	121.5
55°	1497.4	1265.7	679.8	235.8	172.5	161.3	152.1	138.8	134.7	131.7	129.6
57.5°	1624.0	1339.2	697.2	192.9	154.1	153.1	149.0	158.2	167.4	161.3	158.2
60°	1723.0	1396.4	699.2	162.3	142.9	161.3	181.7	184.8	160.3	146.0	144.9
62.5°	1801.6	1450.5	651.2	140.9	146.0	189.9	193.9	163.3	138.8	132.7	132.7
65°	1842.4	1469.9	523.6	128.6	152.1	181.7	175.6	147.0	129.6	128.6	128.6
67.5°	1822.0	1454.6	366.4	115.3	134.7	157.2	157.2	134.7	119.4	124.5	122.5
70°	1724.0	1379.0	241.9	104.1	118.4	141.9	146.0	125.6	111.3	114.3	111.3
72.5°	1519.9	1244.3	159.2	91.9	102.1	125.6	135.8	115.3	102.1	101.1	98.0
73°	1480.1	1193.2	150.0	89.8	99.0	121.5	132.7	113.3	100.0	97.0	94.9
75°	1255.5	995.2	113.3	80.6	87.8	109.2	123.5	106.2	91.9	87.8	85.7
77.5°	914.6	690.0	84.7	68.4	73.5	94.9	109.2	97.0	81.7	76.6	75.5
80°	570.6	375.6	63.3	55.1	58.2	79.6	95.9	86.8	70.4	64.3	63.3
82.5°	223.5	122.5	43.9	40.8	42.9	60.2	80.6	75.5	59.2	54.1	51.0
85°	36.7	41.9	28.6	27.6	27.6	42.9	61.2	58.2	39.8	34.7	30.6
87.5°	10.2	19.4	11.2	10.2	10.2	18.4	33.7	26.5	16.3	13.3	12.2
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)