

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: P594459

Luminaire Tested: **ISS-PA1A-730-U-T4W**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594459
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISS-PA1A-730-U-T4W
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 3000K, 350mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3793 lumens
Efficiency: N/A
Efficacy: 131.2 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

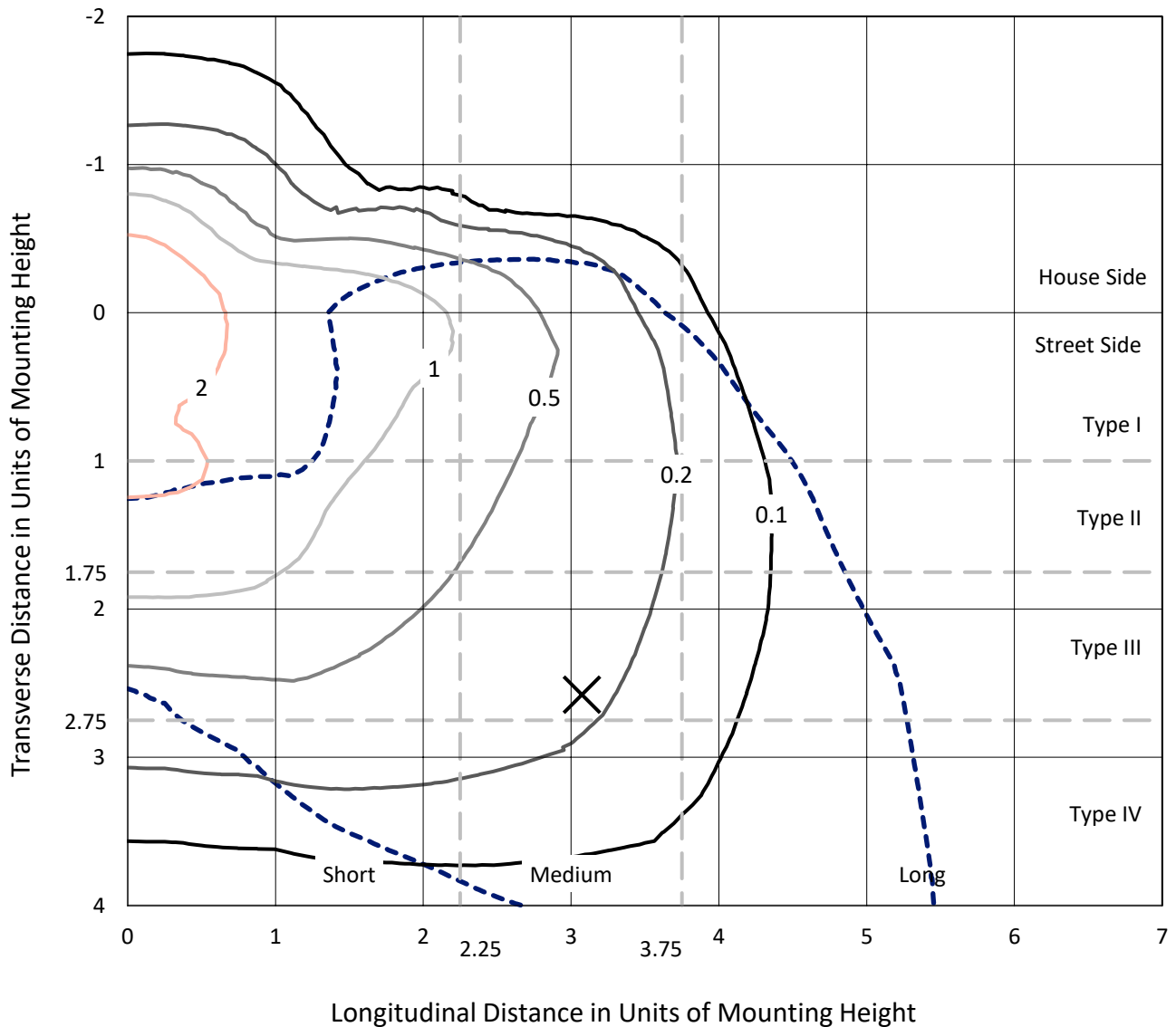
Input Watts (W): 28.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

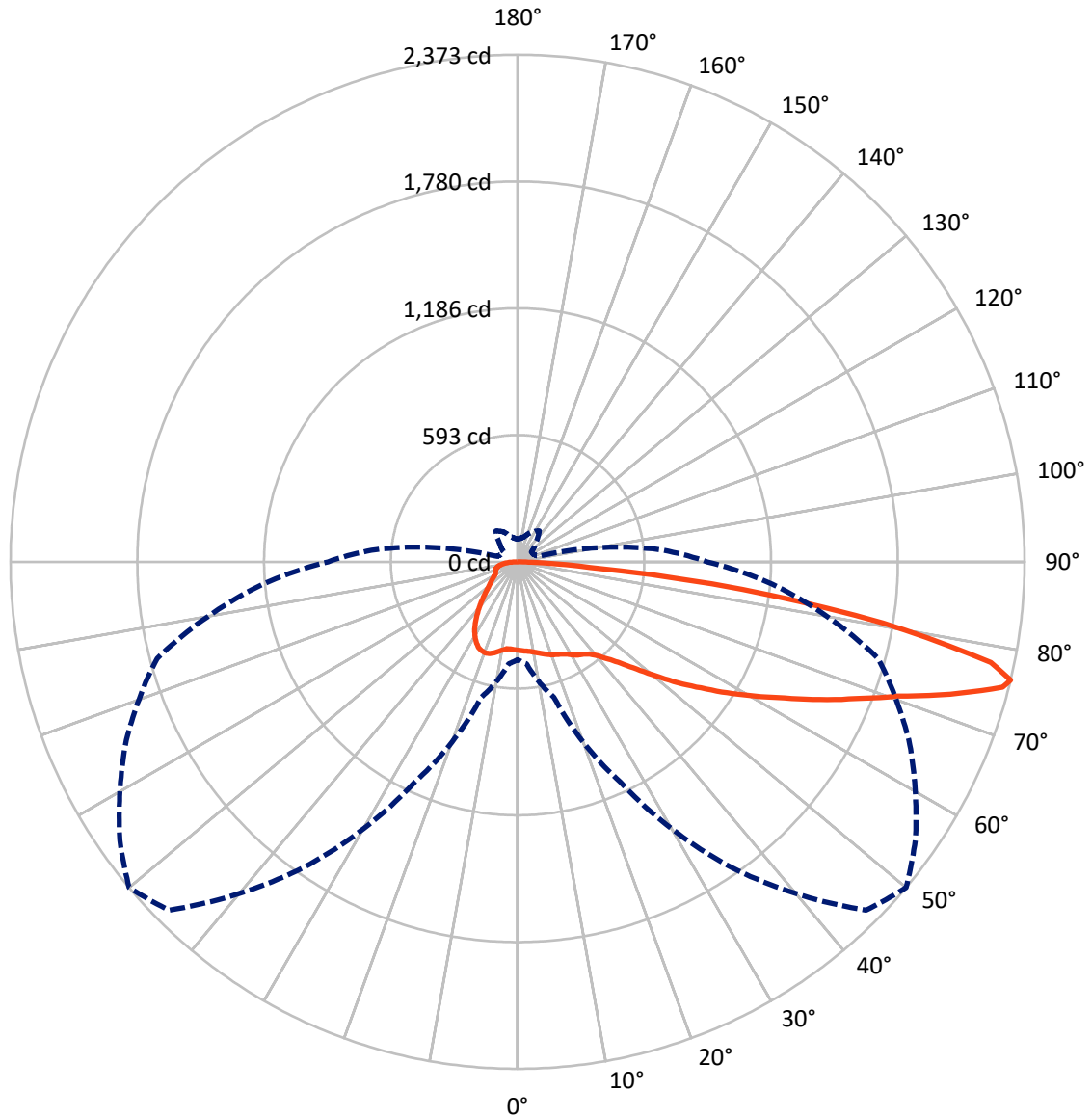
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 76-Deg Vertical

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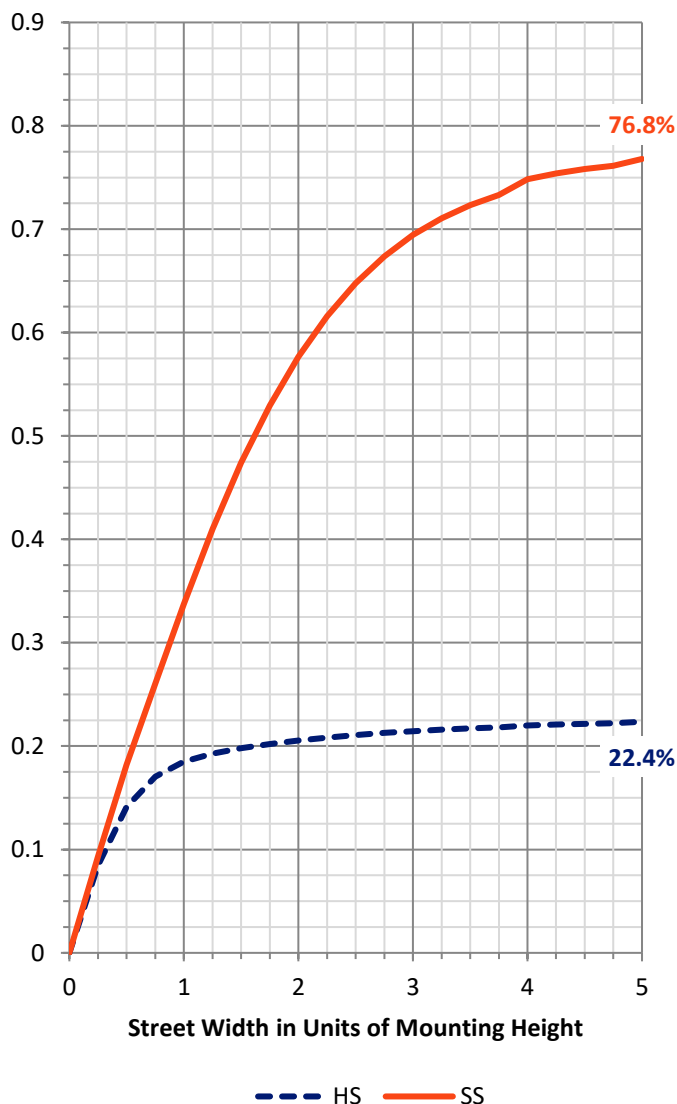
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	867.7	0.0	867.7
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	2925.3	0.0	2925.3
	% Fixture	77.1	0.0	77.1
Total	Lumens	3793.0	0.0	3793.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.1	1.1
10°-20°	126.2	3.3
20°-30°	213.2	5.6
30°-40°	292.2	7.7
40°-50°	430.4	11.3
50°-60°	677.1	17.9
60°-70°	974.6	25.7
70°-80°	886.2	23.4
80°-90°	153.0	4.0
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°	3793.0	100.0
0°-180°	3793.0	100.0

Coefficient of Utilization

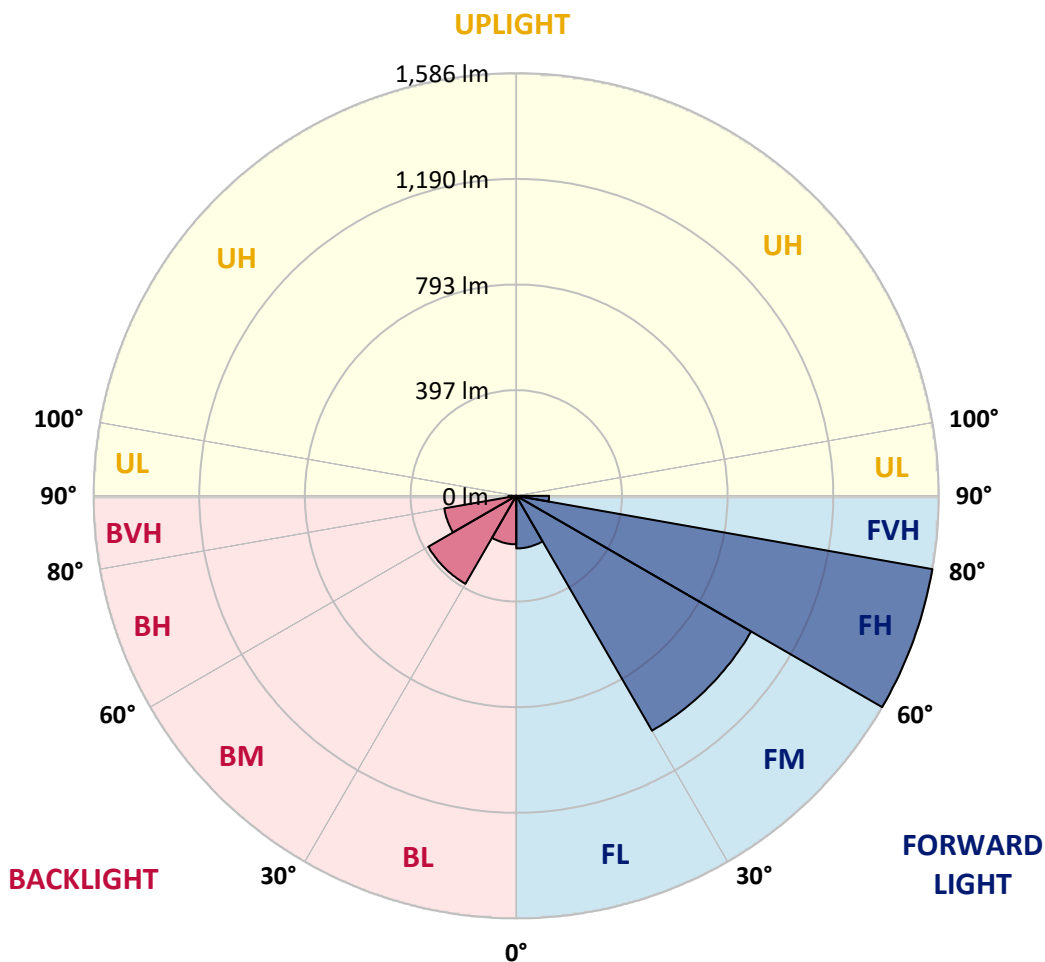


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	197.4	5.2			
FM (30°-60°)	1018.4	26.8			
FH (60°-80°)	1586.4	41.8			G1/1800
FVH (80°-90°)	123.1	3.2			G2/225
BL (0°-30°)	182.2	4.8	B1/500		
BM (30°-60°)	381.4	10.1	B1/1000		
BH (60°-80°)	274.3	7.2	B1/500		G1/500
BVH (80°-90°)	29.8	0.8			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°	50°	55°	65°	75°	85°
0°	413.4	413.4	413.4	413.4	413.4	413.4	413.4	413.4	413.4	413.4	413.4
2.5°	422.7	422.7	423.6	421.8	421.8	417.1	417.1	416.2	414.4	413.4	411.6
5°	438.5	438.5	435.7	431.1	428.3	422.7	419.9	418.1	414.4	409.7	405.1
7.5°	455.2	453.4	451.5	444.1	438.5	428.3	423.6	420.9	413.4	406.9	404.1
10°	472.9	470.1	465.5	456.2	447.8	435.7	430.2	426.4	418.1	412.5	406.0
12.5°	483.1	483.1	477.5	466.4	455.2	440.4	437.6	432.9	424.6	417.1	410.6
15°	493.3	494.3	488.7	475.7	462.7	451.5	446.9	444.1	434.8	423.6	415.3
17.5°	503.5	502.6	497.0	482.2	468.2	458.0	455.2	451.5	442.2	432.0	423.6
20°	511.0	509.1	507.3	488.7	474.7	468.2	464.5	461.7	452.4	441.3	430.2
22.5°	512.8	514.7	512.8	490.5	479.4	472.0	471.0	468.2	460.8	450.6	439.4
25°	513.8	514.7	517.5	496.1	485.9	480.3	478.5	476.6	471.0	462.7	447.8
27.5°	518.4	519.3	519.3	499.8	494.3	490.5	488.7	488.7	485.9	475.7	460.8
30°	519.3	520.3	522.1	509.1	507.3	504.5	505.4	504.5	499.8	488.7	472.0
32.5°	525.8	526.8	531.4	514.7	516.6	519.3	520.3	519.3	510.0	500.8	486.8
35°	547.2	546.3	550.0	528.6	526.8	527.7	530.5	529.6	525.8	517.5	508.2
37.5°	616.0	616.0	605.7	561.1	547.2	545.4	547.2	551.9	552.8	545.4	537.9
40°	736.7	730.2	724.7	628.0	583.4	572.3	577.9	580.7	588.1	588.1	588.1
42.5°	861.2	862.2	860.3	732.1	648.5	620.6	621.5	628.0	643.8	646.6	655.0
45°	971.8	978.3	992.2	852.9	744.2	681.9	675.4	681.9	704.2	722.8	744.2
47.5°	1058.2	1050.8	1081.4	979.2	853.8	765.5	748.8	750.7	781.3	811.1	844.5
50°	1132.5	1134.4	1148.3	1108.4	992.2	860.3	838.0	834.3	878.0	909.5	966.2
52.5°	1216.1	1210.6	1231.0	1221.7	1126.9	976.4	941.1	930.0	977.4	1022.0	1083.3
55°	1256.1	1261.7	1303.5	1326.7	1254.2	1080.5	1041.5	1045.2	1095.4	1142.7	1228.2
57.5°	1326.7	1332.3	1380.6	1428.9	1367.6	1191.0	1156.7	1156.7	1213.3	1266.3	1398.2
60°	1423.3	1424.2	1473.5	1557.1	1467.0	1297.9	1275.6	1274.7	1336.0	1397.3	1598.9
62.5°	1466.0	1477.2	1550.6	1659.3	1597.0	1428.9	1402.9	1410.3	1465.1	1536.7	1822.8
65°	1408.4	1432.6	1585.9	1728.0	1713.2	1565.5	1555.2	1565.5	1598.9	1676.0	2059.7
67.5°	1218.0	1250.5	1520.9	1774.5	1806.1	1723.4	1708.5	1706.7	1728.0	1814.4	2209.3
70°	1119.5	1139.0	1349.0	1792.1	1880.4	1883.2	1883.2	1871.1	1868.3	1931.5	2223.2
72.5°	921.6	942.1	1138.1	1693.7	1951.0	2096.9	2118.2	2073.6	2004.9	1991.9	1990.0
75°	656.8	671.7	840.8	1332.3	1860.9	2302.2	2344.9	2258.5	2067.1	1860.0	1451.2
76°	458.0	479.4	656.8	1138.1	1747.5	2305.9	2372.8	2272.5	2025.3	1746.6	1195.7
77.5°	232.3	239.7	380.0	764.6	1462.3	2200.0	2265.0	2152.6	1843.2	1411.2	759.0
80°	88.3	91.0	135.6	278.7	802.7	1708.5	1733.6	1582.2	1219.8	603.0	273.1
82.5°	46.5	48.3	76.2	137.5	329.8	939.3	1060.0	882.6	478.5	181.2	79.9
85°	23.2	25.1	44.6	83.6	163.5	293.6	340.0	321.5	158.9	68.7	29.7
87.5°	9.3	11.1	22.3	37.2	66.0	57.6	64.1	82.7	51.1	32.5	10.2
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°	413.4	413.4	413.4	413.4	413.4	413.4	413.4	413.4	413.4	413.4	413.4
2.5°	411.6	410.6	411.6	410.6	411.6	411.6	412.5	410.6	410.6	412.5	409.7
5°	405.1	404.1	405.1	406.9	407.9	409.7	413.4	412.5	414.4	416.2	417.1
7.5°	402.3	401.4	404.1	405.1	407.9	411.6	417.1	420.9	422.7	426.4	424.6
10°	405.1	405.1	408.8	411.6	416.2	420.9	425.5	429.2	433.9	436.7	435.7
12.5°	409.7	408.8	415.3	419.0	425.5	430.2	433.9	435.7	439.4	443.2	442.2
15°	414.4	415.3	424.6	432.0	439.4	441.3	442.2	440.4	442.2	444.1	444.1
17.5°	423.6	424.6	434.8	443.2	449.7	447.8	443.2	438.5	438.5	439.4	440.4
20°	431.1	432.9	445.0	452.4	456.2	448.7	441.3	435.7	432.9	433.9	432.9
22.5°	439.4	443.2	455.2	459.0	453.4	444.1	434.8	427.4	427.4	428.3	428.3
25°	449.7	451.5	459.9	458.0	447.8	433.9	426.4	423.6	422.7	423.6	424.6
27.5°	459.0	459.9	464.5	451.5	432.0	417.1	414.4	415.3	416.2	417.1	418.1
30°	471.0	472.9	468.2	442.2	412.5	395.8	395.8	401.4	403.2	406.0	405.1
32.5°	485.9	487.8	473.8	430.2	387.4	370.7	371.6	380.0	385.6	387.4	388.3
35°	511.0	507.3	477.5	413.4	360.5	340.0	341.0	351.2	358.6	361.4	359.5
37.5°	541.6	540.7	483.1	392.1	327.0	308.4	309.4	314.0	321.5	322.4	323.3
40°	592.7	585.3	492.4	364.2	293.6	275.9	274.1	276.9	275.9	277.8	278.7
42.5°	666.1	646.6	504.5	332.6	263.9	245.3	243.4	238.8	233.2	227.6	224.8
45°	752.5	721.9	519.3	300.1	233.2	216.5	211.8	206.2	195.1	183.0	179.3
47.5°	864.0	805.5	536.1	267.6	204.4	191.4	187.7	179.3	166.3	152.4	149.6
50°	978.3	904.0	552.8	240.6	181.2	173.7	170.0	161.7	144.9	131.9	129.1
52.5°	1111.1	1001.5	570.4	216.5	160.7	160.7	157.9	144.9	129.1	117.1	115.2
55°	1264.4	1101.9	598.3	193.2	145.9	149.6	145.9	132.9	118.0	109.6	108.7
57.5°	1447.5	1229.1	633.6	168.2	132.9	135.6	135.6	126.4	116.1	110.6	109.6
60°	1631.4	1358.3	655.9	149.6	122.6	125.4	131.0	126.4	119.8	117.1	116.1
62.5°	1807.9	1490.2	617.8	133.8	112.4	120.8	134.7	135.6	129.1	130.1	130.1
65°	1939.9	1590.5	499.8	119.8	105.9	123.6	145.9	146.8	135.6	132.9	131.9
67.5°	1985.4	1618.4	336.3	110.6	102.2	125.4	158.9	155.2	135.6	130.1	127.3
70°	1899.0	1516.2	218.3	102.2	96.6	123.6	169.1	159.8	134.7	126.4	122.6
72.5°	1592.4	1293.2	145.9	94.8	91.0	121.7	175.6	159.8	131.9	119.8	116.1
75°	1105.6	883.5	108.7	85.5	82.7	118.9	177.4	157.0	125.4	112.4	109.6
76°	887.2	662.4	98.5	81.8	79.0	117.1	176.5	154.2	120.8	108.7	105.9
77.5°	560.2	380.9	82.7	75.3	73.4	113.3	172.8	147.7	114.3	102.2	99.4
80°	196.0	139.4	63.2	61.3	62.2	105.0	162.6	134.7	101.3	90.1	86.4
82.5°	78.0	64.1	47.4	47.4	49.2	90.1	146.8	118.9	88.3	74.3	68.7
85°	30.7	27.9	33.4	33.4	35.3	73.4	122.6	92.9	60.4	46.5	44.6
87.5°	9.3	13.0	14.9	15.8	16.7	37.2	69.7	40.9	26.9	19.5	15.8
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)