

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: P594476

Luminaire Tested: **ISS-PA1A-740-U-T4W-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594476
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISS-PA1A-740-U-T4W-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 4000K, 350mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3165 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B0 - U0 - G1

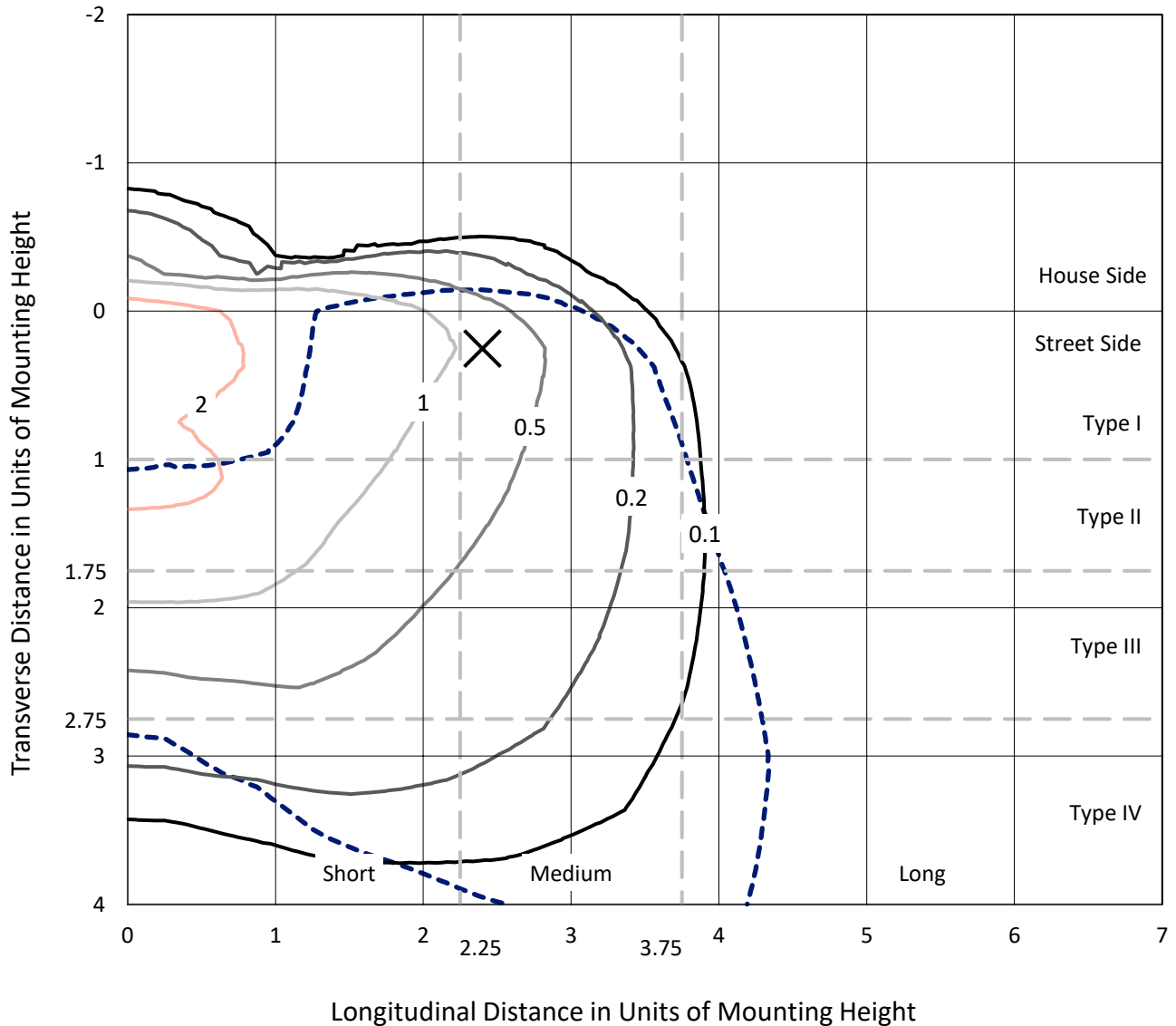
Input Watts (W): 28.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

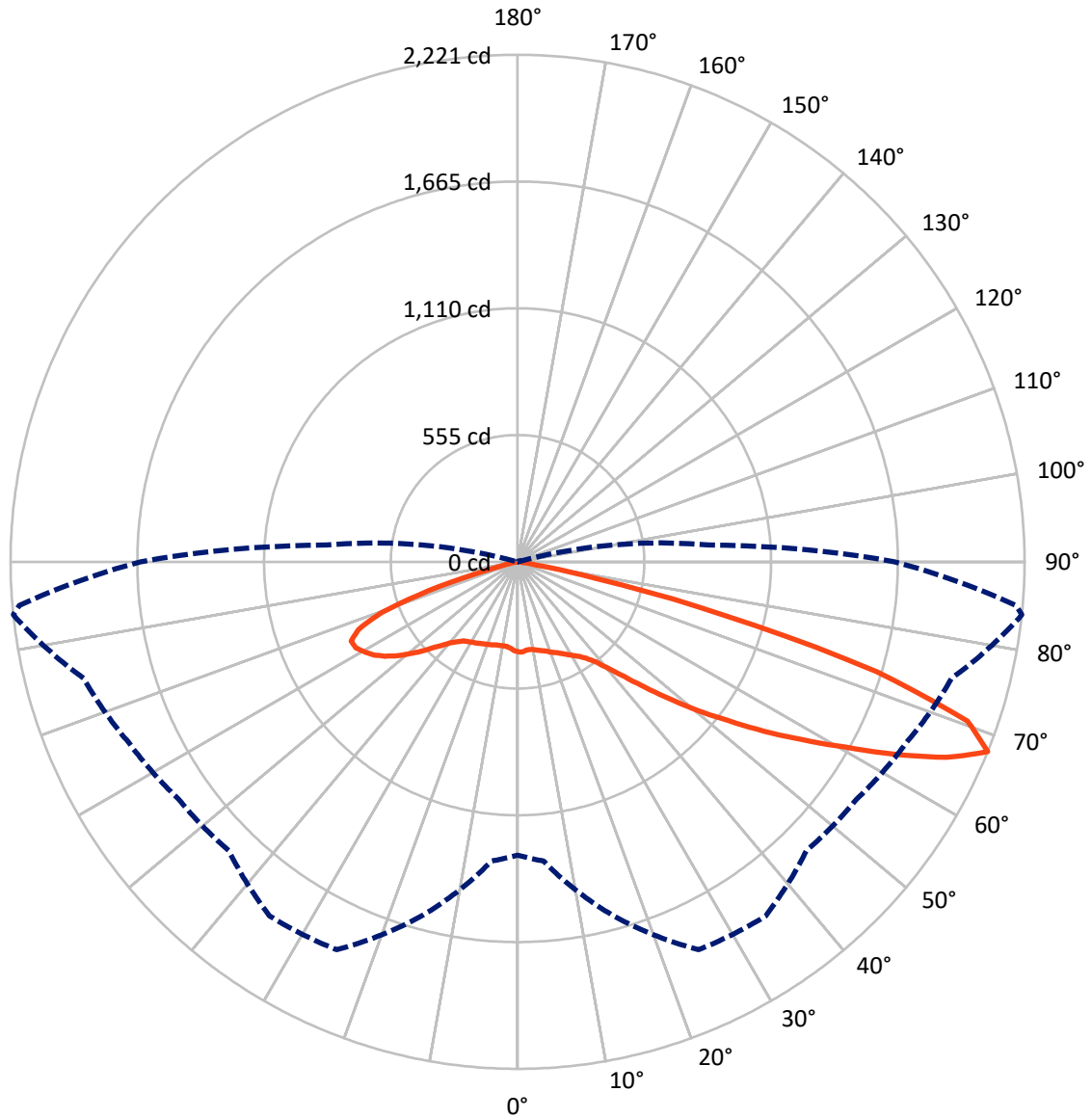
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 84-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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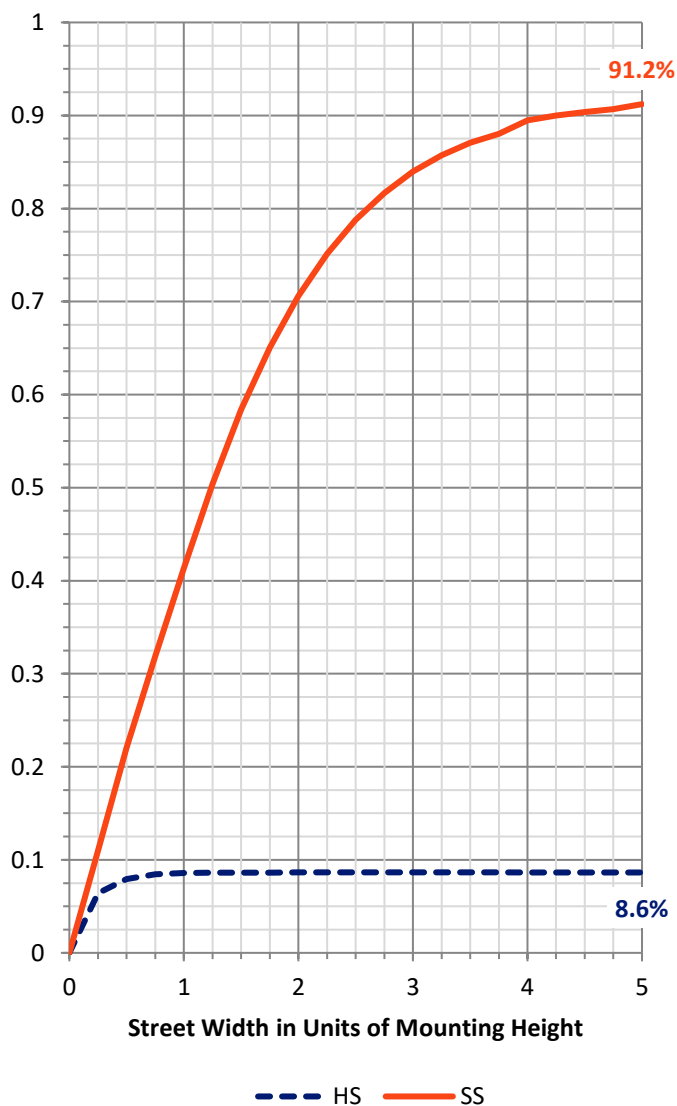
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	275.6	0.0	275.6
	% Fixture	8.7	0.0	8.7
Street Side	Lumens	2889.4	0.0	2889.4
	% Fixture	91.3	0.0	91.3
Total	Lumens	3165.0	0.0	3165.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.3	1.1
10°-20°	92.5	2.9
20°-30°	148.1	4.7
30°-40°	213.1	6.7
40°-50°	365.8	11.6
50°-60°	639.2	20.2
60°-70°	915.4	28.9
70°-80°	688.0	21.7
80°-90°	67.5	2.1
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°	3165.0	100.0
0°-180°	3165.0	100.0

Coefficient of Utilization

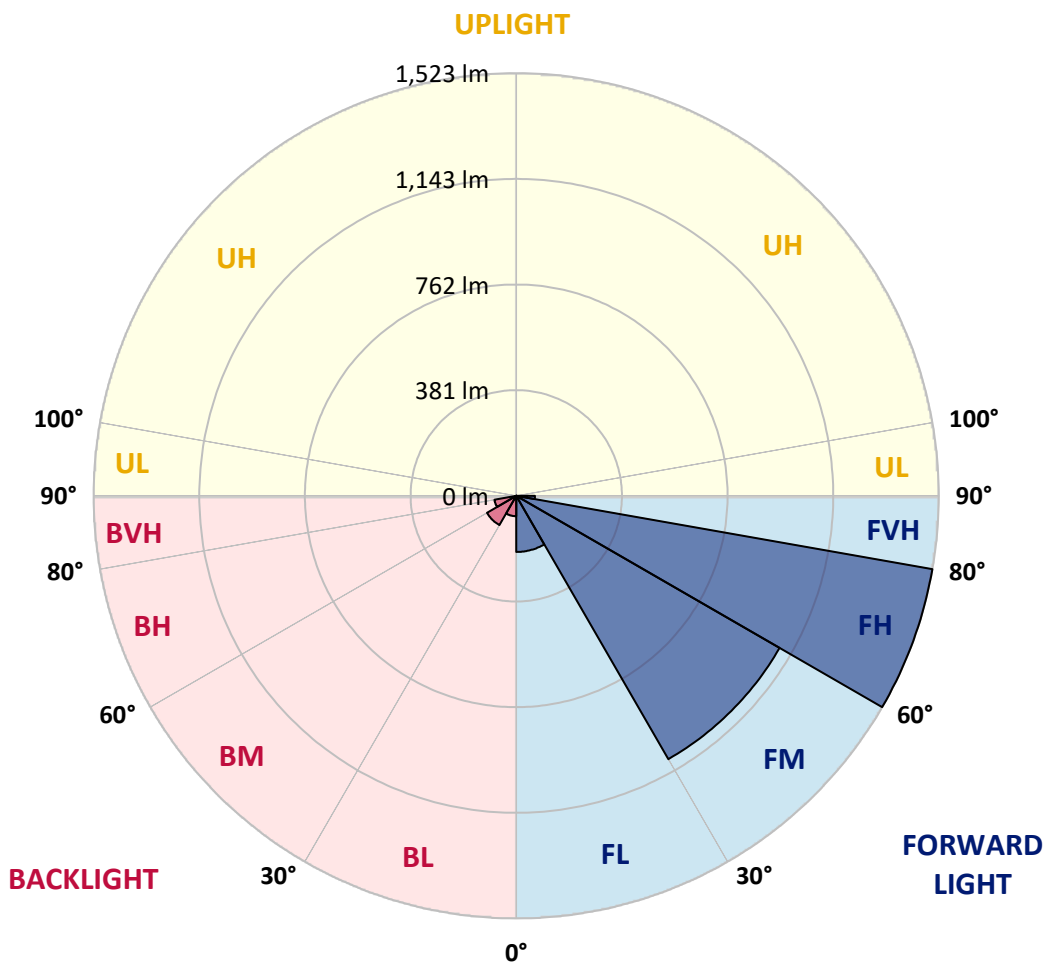


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	202.3	6.4			
FM (30°-60°)	1096.3	34.6			
FH (60°-80°)	1523.5	48.1			G1/1800
FVH (80°-90°)	67.3	2.1			G1/100
BL (0°-30°)	73.6	2.3	B0/110		
BM (30°-60°)	121.9	3.9	B0/220		
BH (60°-80°)	79.9	2.5	B0/110		G0/110
BVH (80°-90°)	0.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	394.3	394.3	394.3	394.3	394.3	394.3	394.3	394.3	394.3	394.3	394.3
2.5°	416.8	418.9	420.0	414.6	414.6	410.4	403.9	401.8	398.6	395.4	394.3
5°	438.1	441.3	440.3	433.9	430.7	422.1	413.6	405.0	396.5	389.0	389.0
7.5°	462.7	463.8	460.6	449.9	443.5	431.7	418.9	409.3	398.6	387.9	385.8
10°	484.1	483.0	478.7	468.1	456.3	441.3	427.4	416.8	403.9	391.1	390.0
12.5°	499.0	500.1	494.8	479.8	468.1	451.0	437.1	426.4	411.4	397.5	394.3
15°	511.9	515.1	508.7	493.7	476.6	461.6	451.0	437.1	420.0	403.9	401.8
17.5°	523.6	524.7	519.3	502.3	486.2	473.4	461.6	448.8	431.7	411.4	409.3
20°	530.0	533.2	530.0	508.7	493.7	484.1	474.5	461.6	442.4	423.2	421.0
22.5°	534.3	537.5	536.4	512.9	500.1	492.6	484.1	472.3	454.2	431.7	429.6
25°	536.4	538.6	540.7	517.2	506.5	503.3	495.8	485.2	468.1	444.5	442.4
27.5°	539.7	541.8	543.9	522.6	518.3	515.1	512.9	504.4	484.1	459.5	456.3
30°	545.0	548.2	550.3	532.2	532.2	535.4	535.4	523.6	501.2	475.5	473.4
32.5°	551.4	552.5	556.8	541.8	547.1	554.6	552.5	540.7	517.2	493.7	490.5
35°	568.5	568.5	576.0	556.8	563.2	569.6	571.7	563.2	541.8	518.3	517.2
37.5°	610.2	610.2	616.6	585.6	584.5	590.9	598.4	598.4	577.1	555.7	553.5
40°	704.2	704.2	704.2	632.6	620.9	628.3	640.1	646.5	628.3	613.4	613.4
42.5°	861.3	862.4	846.3	719.2	669.0	681.8	694.6	708.5	698.9	688.2	686.1
45°	1023.7	1018.4	1016.3	846.3	754.4	748.0	764.1	787.6	790.8	784.4	788.6
47.5°	1134.9	1140.2	1143.4	1004.5	874.1	830.3	845.3	878.4	897.6	896.6	903.0
50°	1242.8	1246.0	1249.2	1178.7	1032.3	934.0	943.6	988.5	1015.2	1023.7	1028.0
52.5°	1336.8	1328.3	1342.2	1332.6	1200.1	1052.6	1052.6	1103.9	1152.0	1155.2	1154.1
55°	1364.6	1370.0	1411.6	1440.5	1372.1	1197.9	1176.6	1231.1	1282.3	1309.1	1309.1
57.5°	1426.6	1432.0	1482.2	1547.4	1497.1	1341.1	1309.1	1362.5	1418.1	1469.4	1476.8
60°	1507.8	1508.9	1562.3	1661.7	1592.2	1470.4	1443.7	1504.6	1560.2	1647.8	1672.4
62.5°	1551.6	1555.9	1629.6	1760.0	1711.9	1583.7	1577.3	1632.9	1704.4	1858.3	1880.8
65°	1484.3	1512.1	1672.4	1818.8	1809.2	1689.5	1711.9	1756.8	1839.1	2064.6	2085.9
67.5°	1284.5	1315.5	1601.9	1874.4	1893.6	1788.9	1812.4	1877.6	1968.4	2220.6	2190.7
70°	1183.0	1208.6	1430.9	1905.3	1964.1	1900.0	1910.7	1971.6	1998.3	2090.2	2058.2
72.5°	896.6	923.3	1210.7	1799.6	2025.0	2016.5	1989.8	1939.5	1781.4	1644.6	1566.6
75°	396.5	427.4	805.7	1406.3	1874.4	2082.7	1941.7	1660.6	1279.1	934.0	865.6
77.5°	175.3	193.4	312.0	781.2	1408.4	1802.8	1535.6	1107.1	642.2	347.3	322.7
80°	56.6	58.8	98.3	273.6	720.3	1193.6	940.4	532.2	197.7	81.2	75.9
82.5°	22.4	24.6	47.0	115.4	298.1	474.5	461.6	192.4	57.7	21.4	21.4
85°	6.4	7.5	23.5	60.9	105.8	133.6	163.5	64.1	31.0	6.4	6.4
87.5°	2.1	2.1	8.5	19.2	20.3	13.9	31.0	24.6	19.2	2.1	2.1
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°	394.3	394.3	394.3	394.3	394.3	394.3	394.3	394.3	394.3	394.3	394.3
2.5°	392.2	390.0	384.7	380.4	378.3	375.1	370.8	368.7	368.7	367.6	364.4
5°	384.7	381.5	371.9	365.5	360.1	348.4	339.8	329.1	318.4	315.2	318.4
7.5°	381.5	375.1	362.3	349.4	327.0	296.0	275.7	253.3	245.8	236.2	237.2
10°	382.6	375.1	356.9	328.1	284.3	238.3	206.2	176.3	161.4	153.9	154.9
12.5°	385.8	377.2	351.6	299.2	236.2	180.6	131.4	107.9	103.7	103.7	103.7
15°	392.2	379.4	343.0	265.0	184.9	119.7	93.0	90.8	94.0	97.2	98.3
17.5°	398.6	385.8	330.2	229.8	134.6	89.8	86.6	86.6	89.8	93.0	94.0
20°	406.1	392.2	312.0	192.4	96.2	84.4	83.4	82.3	84.4	87.6	88.7
22.5°	417.8	398.6	290.7	148.5	83.4	81.2	79.1	78.0	79.1	82.3	83.4
25°	428.5	407.1	268.2	110.1	78.0	75.9	74.8	73.7	73.7	75.9	76.9
27.5°	441.3	416.8	243.6	82.3	71.6	70.5	69.5	68.4	67.3	69.5	70.5
30°	457.4	425.3	216.9	69.5	65.2	64.1	63.0	62.0	60.9	62.0	63.0
32.5°	477.7	437.1	185.9	63.0	59.8	56.6	55.6	55.6	54.5	54.5	55.6
35°	504.4	449.9	152.8	58.8	54.5	51.3	48.1	47.0	47.0	47.0	48.1
37.5°	543.9	473.4	120.8	54.5	50.2	44.9	41.7	38.5	38.5	38.5	38.5
40°	598.4	499.0	94.0	51.3	47.0	39.5	35.3	31.0	28.9	27.8	28.9
42.5°	682.8	537.5	72.7	47.0	44.9	35.3	28.9	23.5	19.2	18.2	19.2
45°	775.8	579.2	57.7	43.8	40.6	29.9	22.4	16.0	11.8	10.7	11.8
47.5°	893.4	631.6	49.2	39.5	35.3	24.6	16.0	8.5	5.3	6.4	6.4
50°	1006.6	682.8	44.9	36.3	31.0	20.3	9.6	4.3	2.1	3.2	3.2
52.5°	1131.7	737.3	41.7	32.1	26.7	15.0	5.3	1.1	0.0	1.1	1.1
55°	1257.8	786.5	38.5	28.9	21.4	10.7	2.1	0.0	0.0	0.0	1.1
57.5°	1394.5	828.2	35.3	24.6	16.0	6.4	1.1	0.0	0.0	0.0	0.0
60°	1508.9	860.2	32.1	21.4	10.7	3.2	0.0	0.0	0.0	0.0	0.0
62.5°	1613.6	889.1	24.6	16.0	6.4	2.1	0.0	0.0	0.0	0.0	0.0
65°	1683.1	895.5	17.1	10.7	4.3	1.1	0.0	0.0	0.0	0.0	0.0
67.5°	1652.1	839.9	10.7	7.5	2.1	1.1	0.0	0.0	0.0	0.0	0.0
70°	1452.3	705.3	7.5	4.3	1.1	1.1	0.0	0.0	0.0	0.0	0.0
72.5°	1016.3	455.2	6.4	3.2	1.1	1.1	0.0	0.0	0.0	0.0	0.0
75°	536.4	164.6	4.3	2.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0
77.5°	190.2	36.3	2.1	1.1	0.0	1.1	0.0	0.0	0.0	0.0	0.0
80°	41.7	7.5	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	11.8	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)