

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: P594600

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

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594600
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-11)
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-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 80 CRI, 3000K, 450mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3156 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B0 - U0 - G1

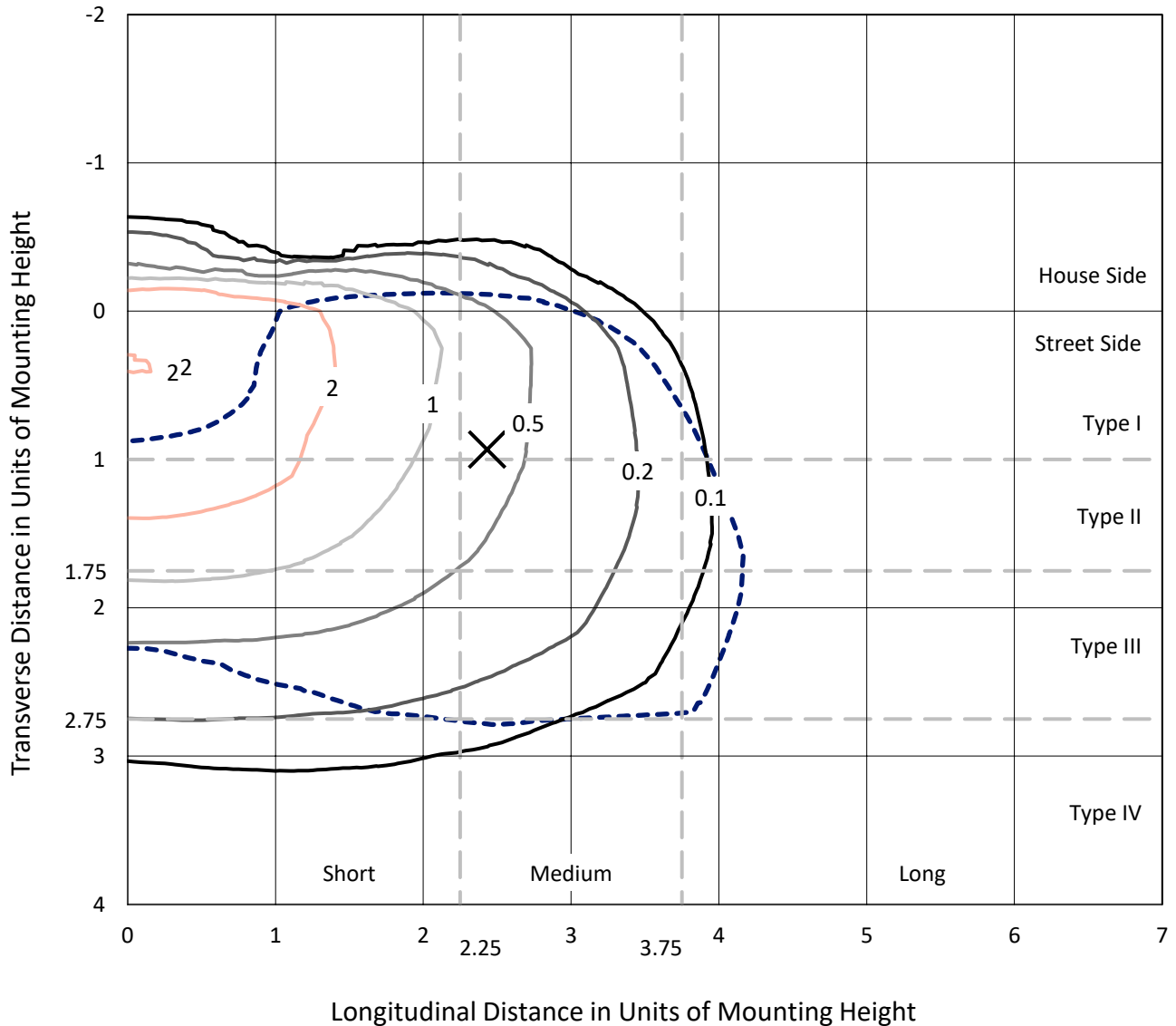
Input Watts (W): 36.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

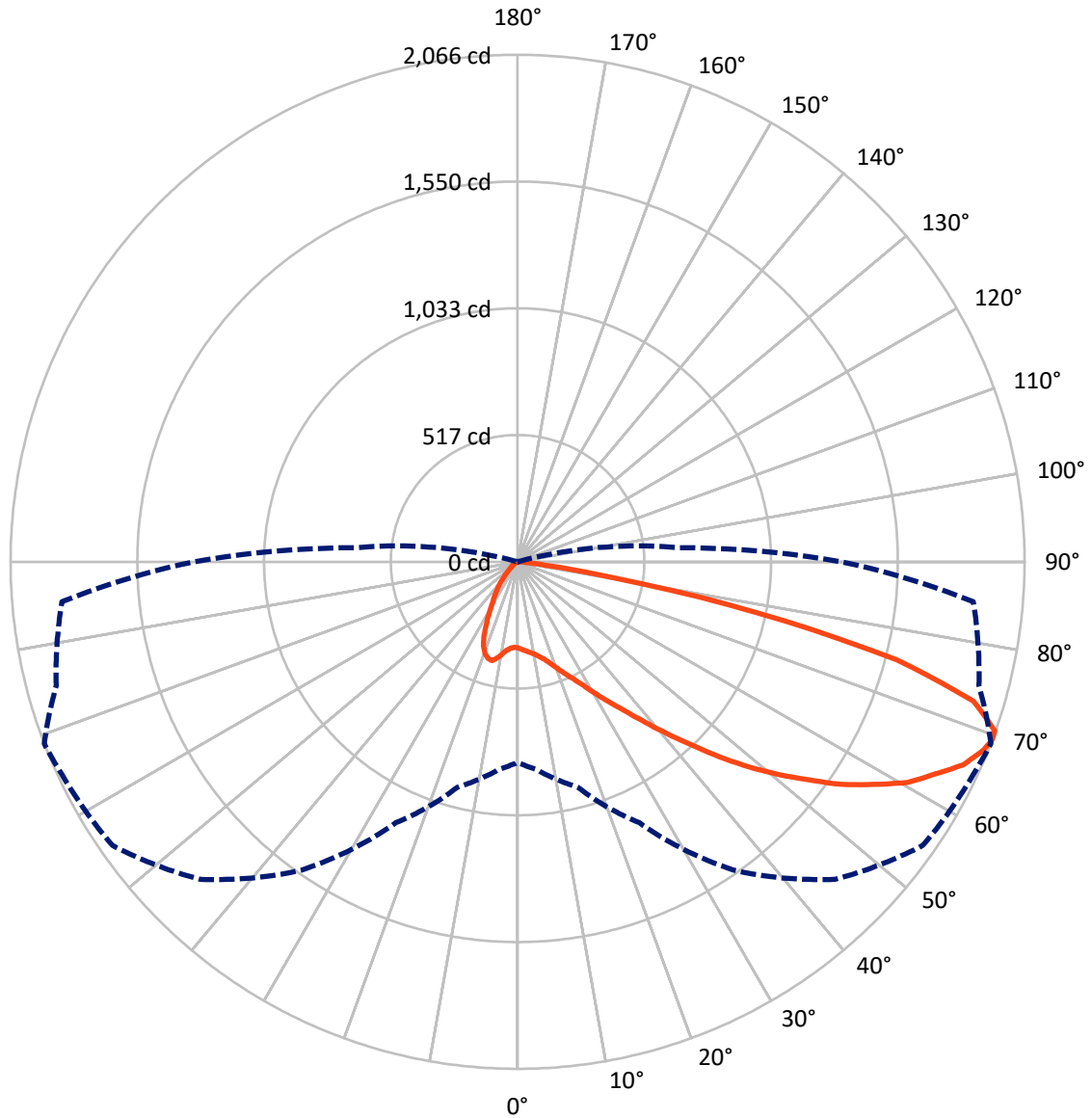
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 69-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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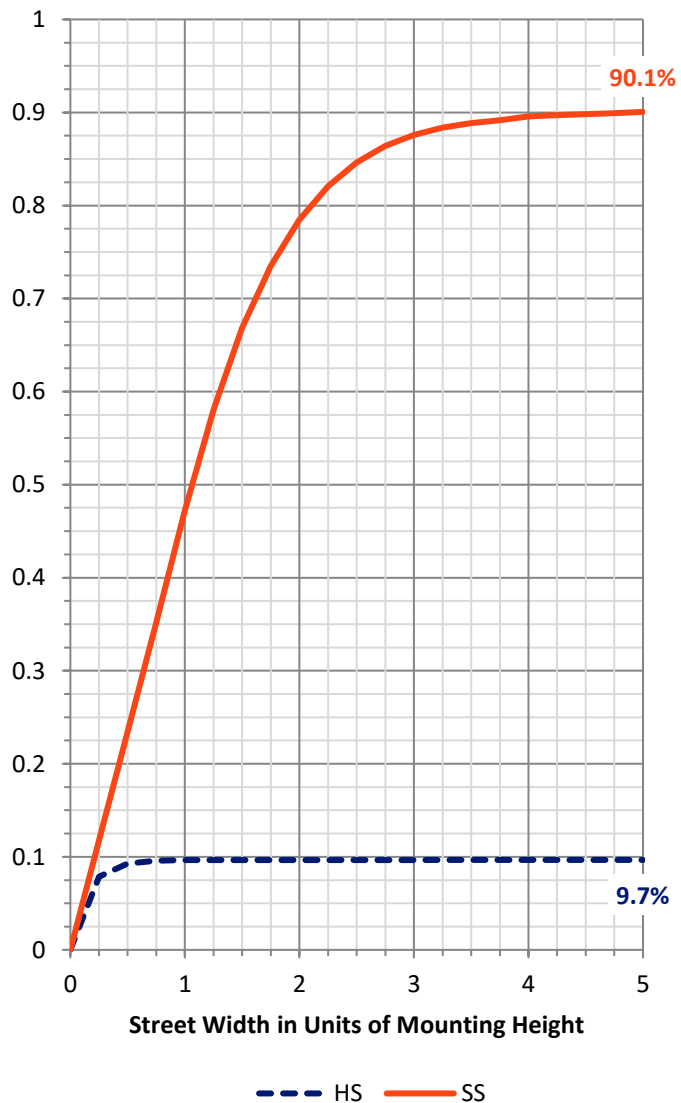
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	307.5	0.0	307.5
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	2848.5	0.0	2848.5
	% Fixture	90.3	0.0	90.3
Total	Lumens	3156.0	0.0	3156.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.5	1.1
10°-20°	88.6	2.8
20°-30°	147.5	4.7
30°-40°	265.5	8.4
40°-50°	481.4	15.3
50°-60°	752.2	23.8
60°-70°	870.3	27.6
70°-80°	486.7	15.4
80°-90°	30.4	1.0
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°	3156.0	100.0
0°-180°	3156.0	100.0

Coefficient of Utilization

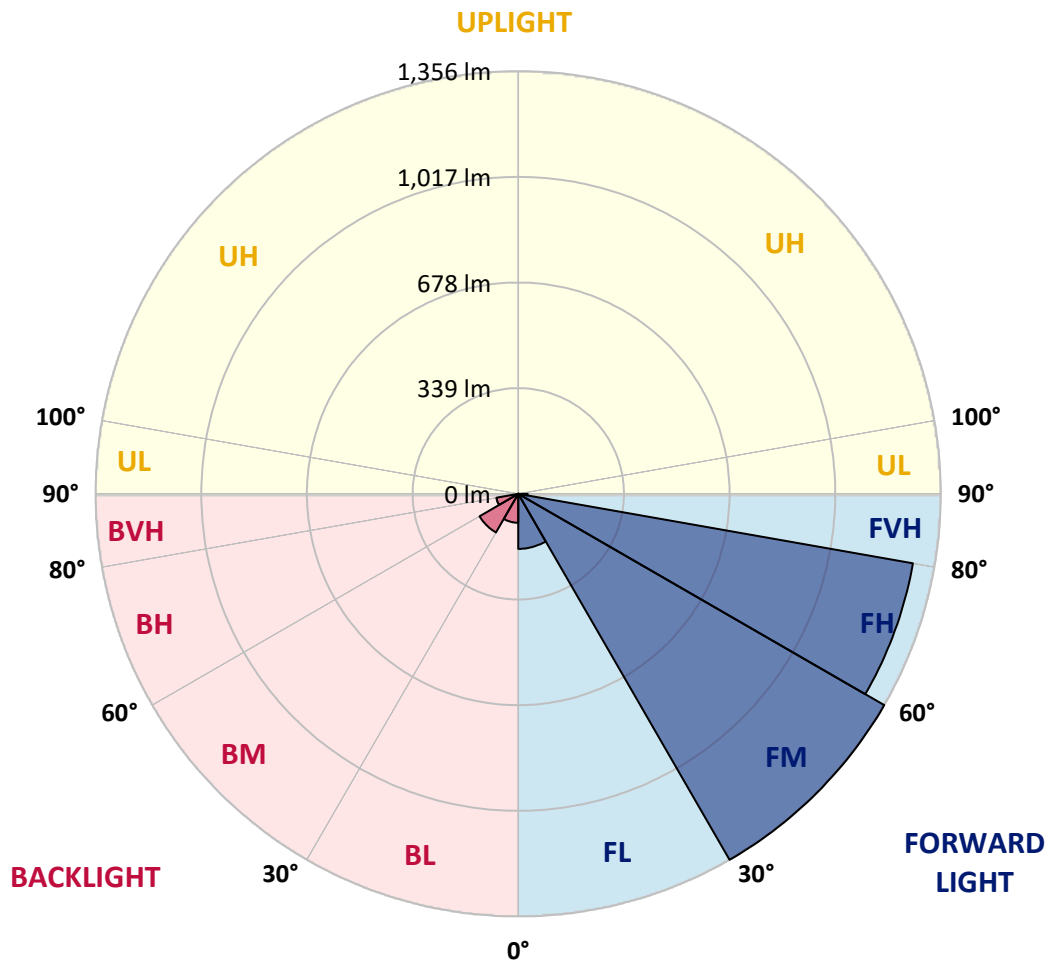


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	176.6	5.6			
FM (30°-60°)	1355.9	43.0			
FH (60°-80°)	1285.8	40.7			G1/1800
FVH (80°-90°)	30.2	1.0			G1/100
BL (0°-30°)	92.9	2.9	B0/110		
BM (30°-60°)	143.2	4.5	B0/220		
BH (60°-80°)	71.2	2.3	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	351.1	351.1	351.1	351.1	351.1	351.1	351.1	351.1	351.1	351.1	351.1
2.5°	363.7	363.7	363.7	361.6	362.6	361.6	360.5	357.4	358.4	357.4	354.2
5°	351.1	352.1	355.3	357.4	362.6	364.7	365.8	365.8	364.7	362.6	360.5
7.5°	326.9	326.9	330.0	336.3	346.8	358.4	367.9	373.1	374.2	374.2	371.0
10°	320.6	320.6	324.8	329.0	339.5	353.2	367.9	380.5	382.6	384.7	383.6
12.5°	317.4	318.5	322.7	330.0	343.7	356.3	372.1	389.9	396.2	401.5	402.6
15°	321.6	321.6	325.8	333.2	349.0	366.8	386.8	406.8	413.1	420.4	425.7
17.5°	327.9	330.0	332.1	339.5	354.2	376.3	402.6	428.8	436.2	445.6	449.9
20°	338.4	338.4	340.5	346.8	362.6	388.9	425.7	457.2	463.5	469.8	475.1
22.5°	351.1	352.1	352.1	357.4	375.2	403.6	445.6	484.5	495.0	498.2	500.3
25°	388.9	386.8	379.4	376.3	389.9	420.4	469.8	517.1	528.7	531.8	527.6
27.5°	467.7	459.3	439.3	418.3	416.2	446.7	502.4	558.1	570.7	571.8	557.1
30°	566.5	567.6	535.0	489.8	459.3	475.1	538.1	609.6	622.2	617.0	593.8
32.5°	688.4	683.2	659.0	593.8	532.9	519.2	577.0	663.2	677.9	669.5	639.0
35°	792.5	795.7	766.2	708.4	631.7	587.5	624.3	723.1	741.0	726.3	688.4
37.5°	879.7	883.9	866.1	818.8	750.5	681.1	686.3	793.6	817.7	803.0	755.7
40°	976.4	979.6	972.2	920.7	859.8	792.5	769.4	874.5	907.1	887.1	837.7
42.5°	1082.6	1094.2	1081.5	1040.5	977.5	919.7	885.0	973.3	1005.9	993.3	927.0
45°	1227.6	1228.7	1214.0	1173.0	1107.8	1060.5	1018.5	1078.4	1120.4	1104.7	1026.9
47.5°	1334.8	1342.2	1333.8	1305.4	1252.9	1221.3	1163.5	1194.0	1238.1	1218.2	1129.9
50°	1416.8	1436.8	1429.4	1437.9	1411.6	1397.9	1309.6	1313.8	1356.9	1340.1	1235.0
52.5°	1462.0	1487.3	1489.4	1532.4	1554.5	1588.2	1451.5	1445.2	1472.5	1457.8	1342.2
55°	1455.7	1462.0	1514.6	1593.4	1679.6	1756.3	1590.3	1564.0	1601.8	1560.8	1455.7
57.5°	1394.8	1410.5	1503.0	1600.8	1753.2	1864.6	1710.1	1680.6	1712.2	1657.5	1572.4
60°	1307.5	1330.6	1449.4	1589.2	1796.3	1929.7	1826.7	1797.3	1825.7	1759.5	1704.8
62.5°	1228.7	1239.2	1348.5	1540.9	1771.0	1926.6	1917.1	1889.8	1906.6	1837.3	1818.3
65°	1116.2	1120.4	1228.7	1453.6	1715.3	1905.6	1966.5	1977.0	1994.9	1902.4	1899.3
67.5°	942.8	952.3	1059.5	1301.2	1622.8	1864.6	2005.4	2026.4	2047.5	1937.1	1914.0
69°	817.7	848.2	951.2	1173.0	1533.5	1829.9	2015.9	2049.6	2066.4	1946.6	1864.6
70°	715.8	742.0	860.8	1074.2	1454.7	1791.0	2023.3	2046.4	2063.2	1926.6	1783.6
72.5°	359.5	393.1	556.0	784.1	1156.2	1613.4	1985.5	1960.2	1942.4	1772.1	1443.1
75°	138.7	144.0	238.6	446.7	723.1	1184.5	1695.4	1648.1	1595.5	1344.3	855.6
77.5°	76.7	75.7	104.1	197.6	308.0	579.1	1146.7	1071.0	998.5	722.1	346.8
80°	32.6	34.7	45.2	94.6	161.9	200.8	557.1	495.0	394.1	229.1	83.0
82.5°	20.0	21.0	31.5	57.8	112.5	76.7	180.8	154.5	113.5	62.0	20.0
85°	6.3	7.4	22.1	38.9	54.7	31.5	41.0	35.7	31.5	26.3	6.3
87.5°	1.1	1.1	8.4	21.0	14.7	5.3	4.2	7.4	11.6	12.6	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°	351.1	351.1	351.1	351.1	351.1	351.1	351.1	351.1	351.1	351.1	351.1
2.5°	353.2	351.1	349.0	347.9	347.9	345.8	344.7	343.7	343.7	342.6	342.6
5°	357.4	355.3	353.2	352.1	350.0	349.0	349.0	349.0	347.9	349.0	350.0
7.5°	367.9	364.7	363.7	362.6	362.6	359.5	354.2	340.5	326.9	322.7	318.5
10°	382.6	381.5	381.5	381.5	374.2	346.8	309.0	275.4	257.5	242.8	242.8
12.5°	403.6	403.6	402.6	399.4	361.6	295.3	236.5	186.0	156.6	139.8	141.9
15°	426.7	425.7	427.8	407.8	318.5	228.1	142.9	100.9	85.1	83.0	83.0
17.5°	450.9	453.0	450.9	385.7	261.7	140.8	85.1	76.7	74.6	74.6	74.6
20°	476.1	474.0	470.9	347.9	190.2	88.3	73.6	71.5	69.4	68.3	68.3
22.5°	501.4	499.3	478.2	299.6	118.8	72.5	69.4	65.2	62.0	61.0	61.0
25°	525.5	525.5	464.6	237.5	80.9	68.3	63.1	58.9	55.7	52.6	52.6
27.5°	556.0	558.1	442.5	166.1	68.3	63.1	56.8	50.5	46.2	44.1	44.1
30°	590.7	593.8	406.8	108.3	62.0	55.7	49.4	42.0	35.7	33.6	32.6
32.5°	631.7	634.8	365.8	71.5	55.7	48.3	41.0	31.5	25.2	24.2	23.1
35°	684.2	676.9	316.4	56.8	48.3	41.0	31.5	22.1	17.9	16.8	16.8
37.5°	749.4	733.6	259.6	49.4	41.0	32.6	23.1	14.7	11.6	11.6	10.5
40°	824.0	779.9	200.8	44.1	34.7	25.2	14.7	9.5	7.4	7.4	7.4
42.5°	906.0	818.8	142.9	38.9	28.4	17.9	9.5	5.3	4.2	4.2	4.2
45°	1000.6	854.5	97.7	33.6	24.2	12.6	5.3	2.1	2.1	2.1	2.1
47.5°	1095.2	877.6	65.2	29.4	17.9	7.4	3.2	1.1	1.1	1.1	1.1
50°	1190.9	895.5	50.5	25.2	12.6	4.2	1.1	0.0	0.0	0.0	0.0
52.5°	1276.0	908.1	41.0	21.0	8.4	3.2	1.1	0.0	0.0	0.0	0.0
55°	1349.6	909.2	35.7	16.8	6.3	2.1	0.0	0.0	0.0	0.0	0.0
57.5°	1424.2	900.8	30.5	12.6	4.2	1.1	0.0	0.0	0.0	0.0	0.0
60°	1469.4	878.7	24.2	9.5	3.2	1.1	0.0	0.0	0.0	0.0	0.0
62.5°	1496.7	841.9	18.9	6.3	2.1	1.1	0.0	0.0	0.0	0.0	0.0
65°	1480.9	795.7	13.7	4.2	2.1	1.1	0.0	0.0	0.0	0.0	0.0
67.5°	1407.4	724.2	9.5	3.2	1.1	1.1	0.0	0.0	0.0	0.0	0.0
69°	1320.1	659.0	8.4	2.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0
70°	1243.4	608.6	7.4	2.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0
72.5°	926.0	392.0	6.3	2.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0
75°	520.3	131.4	4.2	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	195.5	33.6	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	43.1	8.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	9.5	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.2	1.1	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)