

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: P595095

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

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595095
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: IST-PA1B-830-U-T3-HSS
Description: IMPACT ELITE LED TRAPEZOID 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: 2994 lumens
Efficiency: N/A
Efficacy: 82.3 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

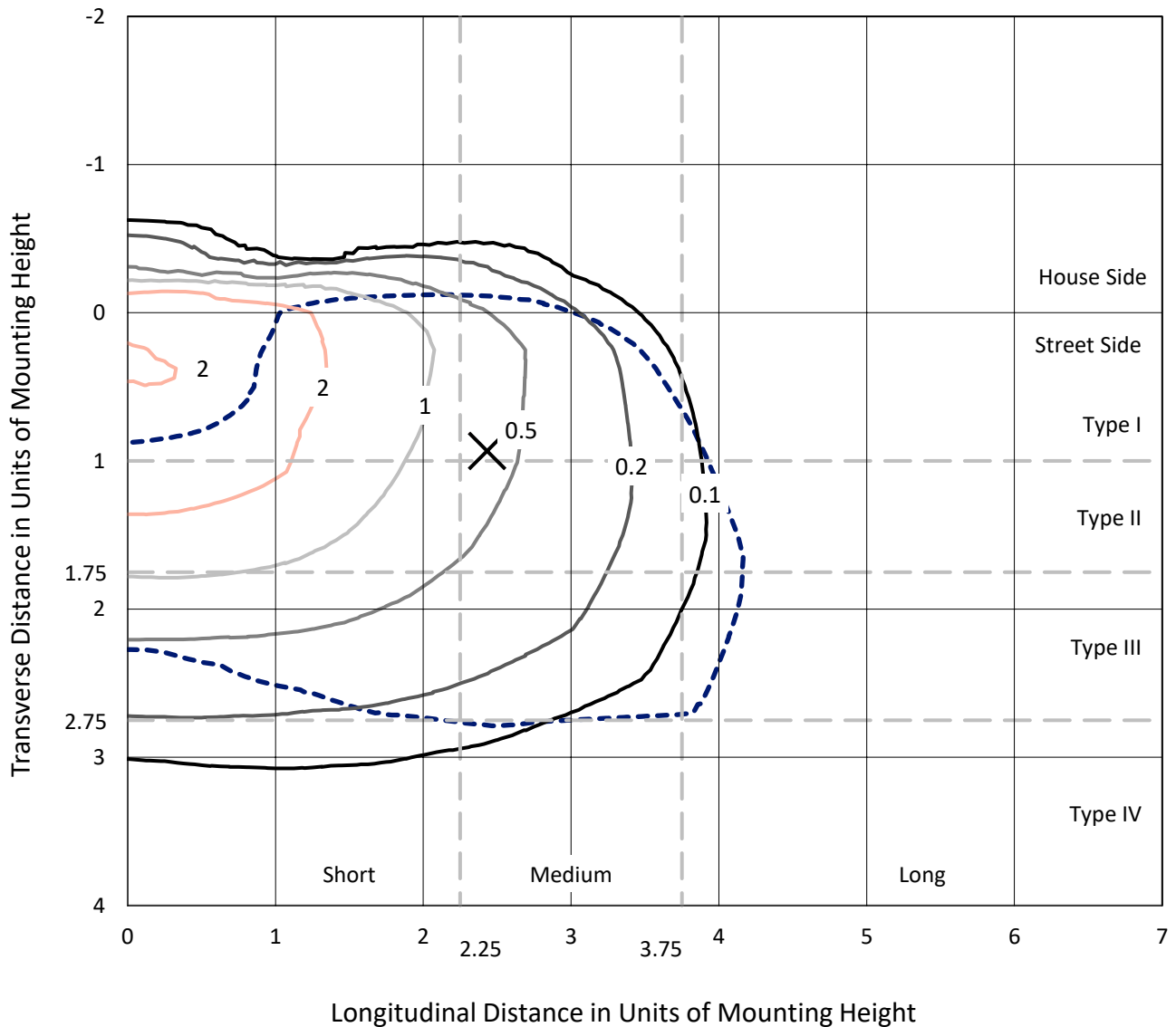
Input Watts (W): 36.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

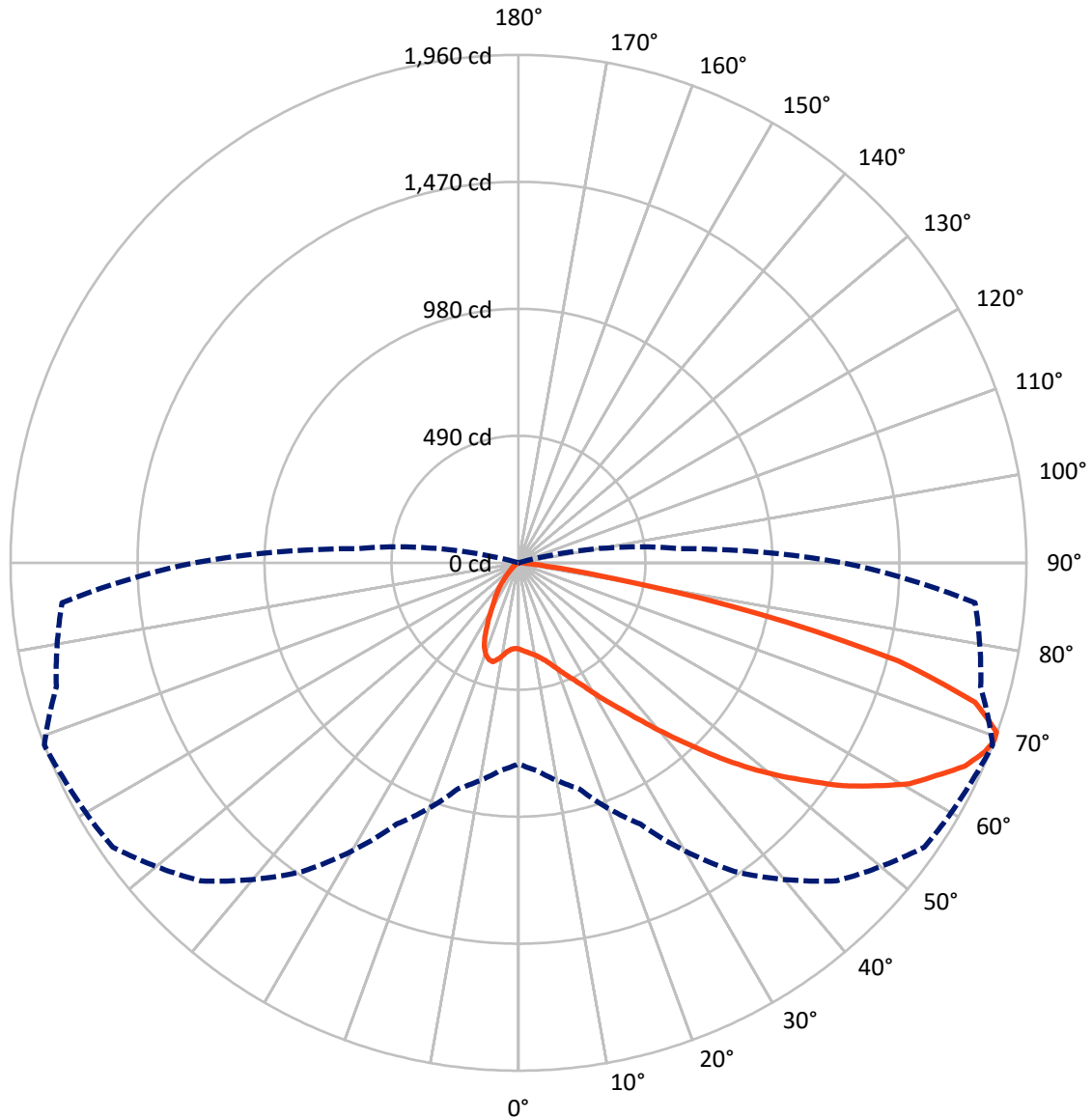
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 2.9 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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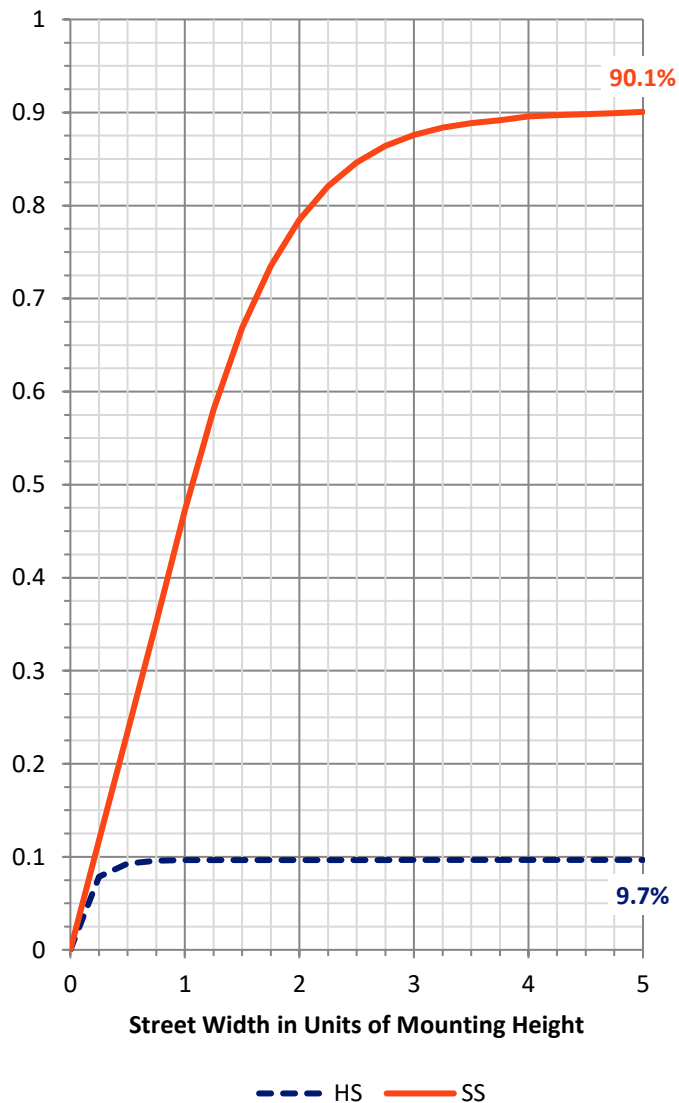
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	291.7	0.0	291.7
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	2702.3	0.0	2702.3
	% Fixture	90.3	0.0	90.3
Total	Lumens	2994.0	0.0	2994.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.8	1.1
10°-20°	84.0	2.8
20°-30°	139.9	4.7
30°-40°	251.8	8.4
40°-50°	456.7	15.3
50°-60°	713.6	23.8
60°-70°	825.7	27.6
70°-80°	461.7	15.4
80°-90°	28.8	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°	2994.0	100.0
0°-180°	2994.0	100.0

Coefficient of Utilization

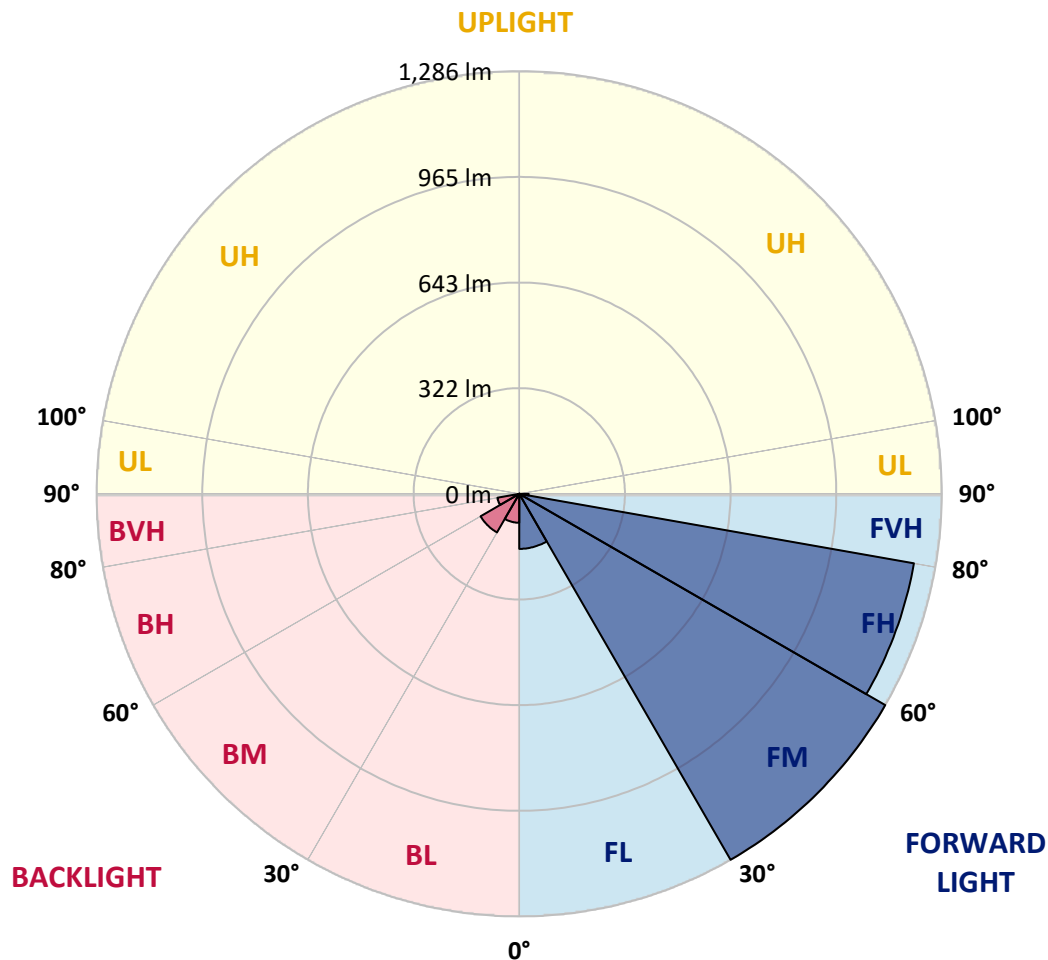


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	167.5	5.6			
FM (30°-60°)	1286.3	43.0			
FH (60°-80°)	1219.8	40.7			G1/1800
FVH (80°-90°)	28.6	1.0			G1/100
BL (0°-30°)	88.2	2.9	B0/110		
BM (30°-60°)	135.8	4.5	B0/220		
BH (60°-80°)	67.6	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°	333.0	333.0	333.0	333.0	333.0	333.0	333.0	333.0	333.0	333.0	333.0
2.5°	345.0	345.0	345.0	343.0	344.0	343.0	342.0	339.0	340.0	339.0	336.0
5°	333.0	334.0	337.0	339.0	344.0	346.0	347.0	347.0	346.0	344.0	342.0
7.5°	310.1	310.1	313.1	319.1	329.0	340.0	349.0	354.0	355.0	355.0	352.0
10°	304.1	304.1	308.1	312.1	322.1	335.0	349.0	361.0	362.9	364.9	363.9
12.5°	301.1	302.1	306.1	313.1	326.1	338.0	353.0	369.9	375.9	380.9	381.9
15°	305.1	305.1	309.1	316.1	331.0	348.0	366.9	385.9	391.9	398.8	403.8
17.5°	311.1	313.1	315.1	322.1	336.0	357.0	381.9	406.8	413.8	422.8	426.8
20°	321.1	321.1	323.1	329.0	344.0	368.9	403.8	433.7	439.7	445.7	450.7
22.5°	333.0	334.0	334.0	339.0	356.0	382.9	422.8	459.7	469.6	472.6	474.6
25°	368.9	366.9	360.0	357.0	369.9	398.8	445.7	490.6	501.5	504.5	500.5
27.5°	443.7	435.7	416.8	396.8	394.9	423.8	476.6	529.5	541.4	542.4	528.5
30°	537.4	538.4	507.5	464.7	435.7	450.7	510.5	578.3	590.3	585.3	563.4
32.5°	653.1	648.1	625.2	563.4	505.5	492.6	547.4	629.2	643.1	635.2	606.2
35°	751.8	754.8	726.9	672.1	599.3	557.4	592.3	686.0	703.0	689.0	653.1
37.5°	834.6	838.6	821.6	776.7	711.9	646.1	651.1	752.8	775.8	761.8	716.9
40°	926.3	929.3	922.3	873.5	815.6	751.8	729.9	829.6	860.5	841.6	794.7
42.5°	1027.0	1038.0	1026.0	987.1	927.3	872.5	839.6	923.3	954.2	942.3	879.4
45°	1164.6	1165.6	1151.7	1112.8	1051.0	1006.1	966.2	1023.0	1062.9	1048.0	974.2
47.5°	1266.3	1273.3	1265.3	1238.4	1188.6	1158.6	1103.8	1132.7	1174.6	1155.6	1071.9
50°	1344.1	1363.0	1356.1	1364.0	1339.1	1326.2	1242.4	1246.4	1287.3	1271.3	1171.6
52.5°	1387.0	1410.9	1412.9	1453.8	1474.7	1506.6	1377.0	1371.0	1396.9	1383.0	1273.3
55°	1381.0	1387.0	1436.8	1511.6	1593.4	1666.2	1508.6	1483.7	1519.6	1480.7	1381.0
57.5°	1323.2	1338.1	1425.9	1518.6	1663.2	1768.9	1622.3	1594.4	1624.3	1572.4	1491.7
60°	1240.4	1262.3	1375.0	1507.6	1704.1	1830.7	1733.0	1705.1	1732.0	1669.2	1617.3
62.5°	1165.6	1175.6	1279.3	1461.8	1680.1	1827.7	1818.7	1792.8	1808.8	1742.9	1725.0
65°	1058.9	1062.9	1165.6	1379.0	1627.3	1807.8	1865.6	1875.6	1892.5	1804.8	1801.8
67.5°	894.4	903.4	1005.1	1234.4	1539.5	1768.9	1902.5	1922.4	1942.4	1837.7	1815.7
69°	775.8	804.7	902.4	1112.8	1454.8	1736.0	1912.5	1944.4	1960.3	1846.6	1768.9
70°	679.0	704.0	816.6	1019.0	1380.0	1699.1	1919.4	1941.4	1957.3	1827.7	1692.1
72.5°	341.0	372.9	527.5	743.8	1096.8	1530.6	1883.5	1859.6	1842.7	1681.1	1369.0
75°	131.6	136.6	226.3	423.8	686.0	1123.7	1608.3	1563.5	1513.6	1275.3	811.6
77.5°	72.8	71.8	98.7	187.5	292.2	549.4	1087.8	1016.1	947.3	685.0	329.0
80°	30.9	32.9	42.9	89.7	153.6	190.4	528.5	469.6	373.9	217.4	78.8
82.5°	18.9	19.9	29.9	54.8	106.7	72.8	171.5	146.6	107.7	58.8	18.9
85°	6.0	7.0	20.9	36.9	51.8	29.9	38.9	33.9	29.9	24.9	6.0
87.5°	1.0	1.0	8.0	19.9	14.0	5.0	4.0	7.0	11.0	12.0	2.0
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°	333.0	333.0	333.0	333.0	333.0	333.0	333.0	333.0	333.0	333.0	333.0
2.5°	335.0	333.0	331.0	330.0	330.0	328.0	327.1	326.1	326.1	325.1	325.1
5°	339.0	337.0	335.0	334.0	332.0	331.0	331.0	331.0	330.0	331.0	332.0
7.5°	349.0	346.0	345.0	344.0	344.0	341.0	336.0	323.1	310.1	306.1	302.1
10°	362.9	362.0	362.0	362.0	355.0	329.0	293.1	261.2	244.3	230.3	230.3
12.5°	382.9	382.9	381.9	378.9	343.0	280.2	224.3	176.5	148.6	132.6	134.6
15°	404.8	403.8	405.8	386.9	302.1	216.4	135.6	95.7	80.8	78.8	78.8
17.5°	427.8	429.8	427.8	365.9	248.3	133.6	80.8	72.8	70.8	70.8	70.8
20°	451.7	449.7	446.7	330.0	180.5	83.8	69.8	67.8	65.8	64.8	64.8
22.5°	475.6	473.6	453.7	284.2	112.7	68.8	65.8	61.8	58.8	57.8	57.8
25°	498.6	498.6	440.7	225.3	76.8	64.8	59.8	55.8	52.8	49.9	49.9
27.5°	527.5	529.5	419.8	157.5	64.8	59.8	53.8	47.9	43.9	41.9	41.9
30°	560.4	563.4	385.9	102.7	58.8	52.8	46.9	39.9	33.9	31.9	30.9
32.5°	599.3	602.3	347.0	67.8	52.8	45.9	38.9	29.9	23.9	22.9	21.9
35°	649.1	642.1	300.1	53.8	45.9	38.9	29.9	20.9	17.0	16.0	16.0
37.5°	710.9	696.0	246.3	46.9	38.9	30.9	21.9	14.0	11.0	11.0	10.0
40°	781.7	739.9	190.4	41.9	32.9	23.9	14.0	9.0	7.0	7.0	7.0
42.5°	859.5	776.7	135.6	36.9	26.9	17.0	9.0	5.0	4.0	4.0	4.0
45°	949.2	810.6	92.7	31.9	22.9	12.0	5.0	2.0	2.0	2.0	2.0
47.5°	1039.0	832.6	61.8	27.9	17.0	7.0	3.0	1.0	1.0	1.0	1.0
50°	1129.7	849.5	47.9	23.9	12.0	4.0	1.0	0.0	0.0	0.0	0.0
52.5°	1210.5	861.5	38.9	19.9	8.0	3.0	1.0	0.0	0.0	0.0	0.0
55°	1280.3	862.5	33.9	16.0	6.0	2.0	0.0	0.0	0.0	0.0	0.0
57.5°	1351.1	854.5	28.9	12.0	4.0	1.0	0.0	0.0	0.0	0.0	0.0
60°	1394.0	833.6	22.9	9.0	3.0	1.0	0.0	0.0	0.0	0.0	0.0
62.5°	1419.9	798.7	17.9	6.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
65°	1404.9	754.8	13.0	4.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
67.5°	1335.1	687.0	9.0	3.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
69°	1252.4	625.2	8.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
70°	1179.6	577.3	7.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
72.5°	878.5	371.9	6.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
75°	493.6	124.6	4.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	185.5	31.9	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	40.9	8.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	9.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	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)