

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: P595093

Luminaire Tested: **IST-PA1B-830-U-T2U-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595093
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-9)
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-T2U-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 80 CRI, 3000K, 450mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2900 lumens
Efficiency: N/A
Efficacy: 79.7 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

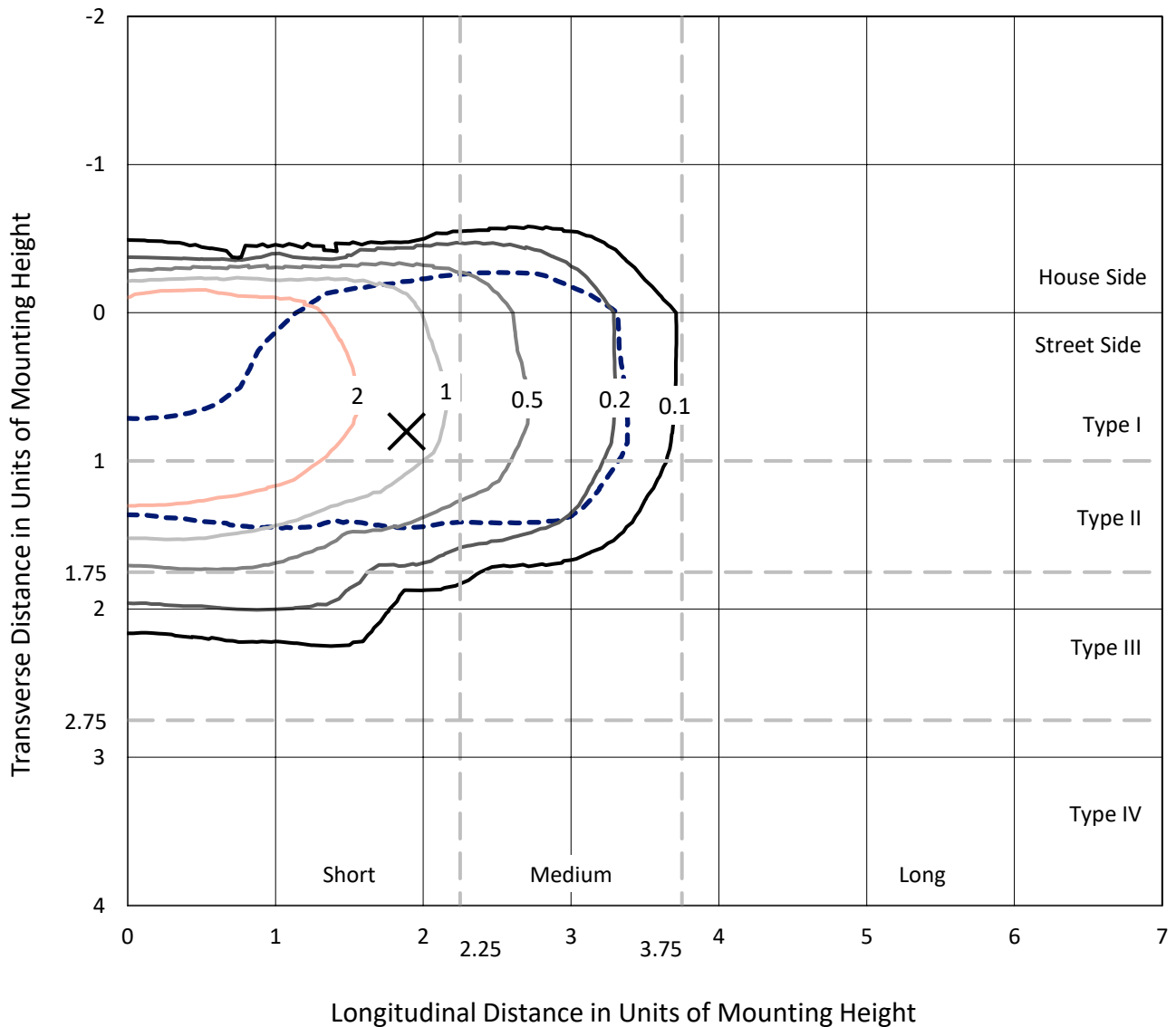
Input Watts (W): 36.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

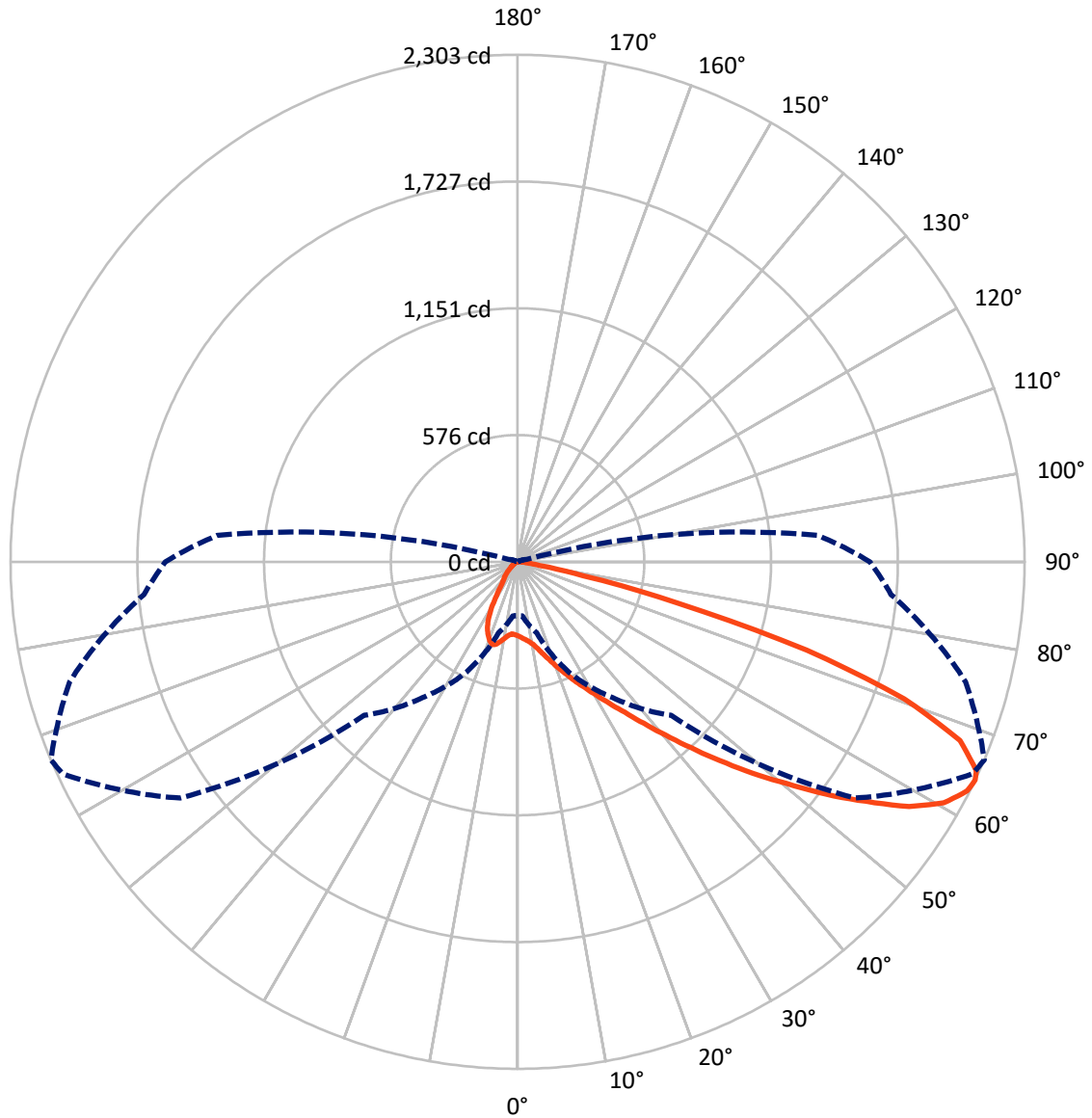
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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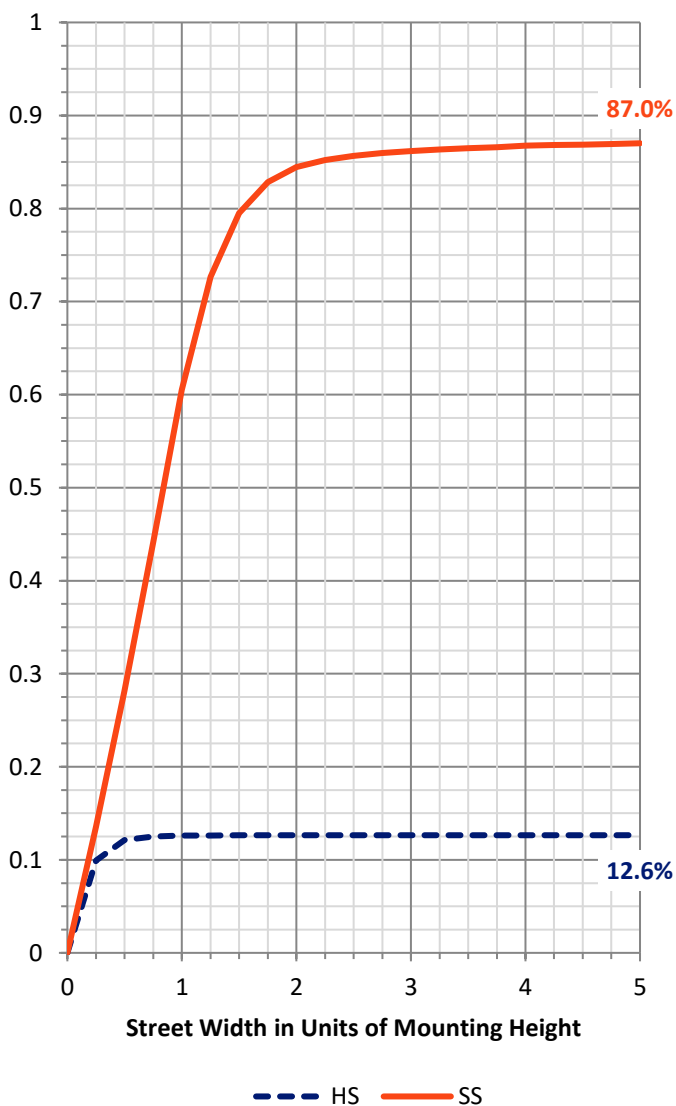
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	371.0	0.0	371.0
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	2529.0	0.0	2529.0
	% Fixture	87.2	0.0	87.2
Total	Lumens	2900.0	0.0	2900.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.0	1.1
10°-20°	94.4	3.3
20°-30°	171.2	5.9
30°-40°	327.9	11.3
40°-50°	604.4	20.8
50°-60°	780.6	26.9
60°-70°	639.4	22.0
70°-80°	235.0	8.1
80°-90°	15.2	0.5
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°	2900.0	100.0
0°-180°	2900.0	100.0

Coefficient of Utilization

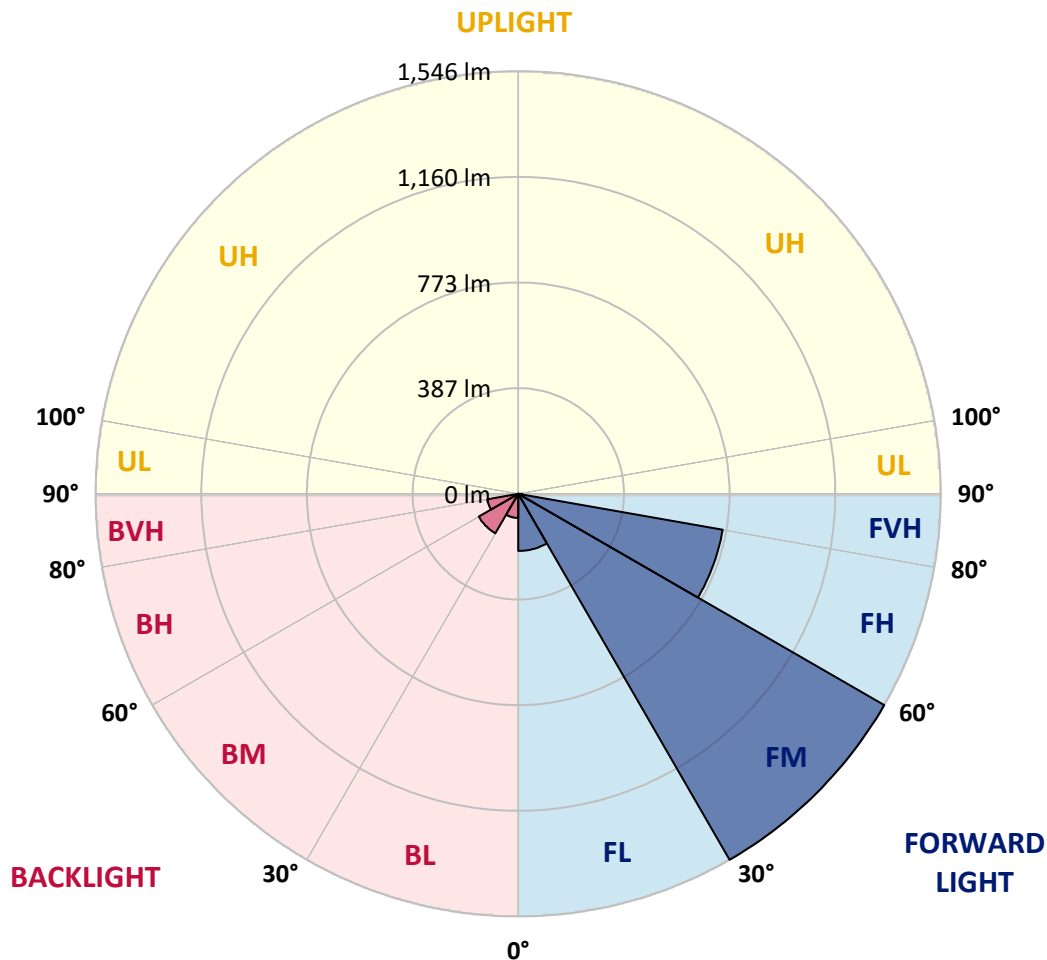


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	209.1	7.2			
FM (30°-60°)	1546.1	53.3			
FH (60°-80°)	759.4	26.2			G1/1800
FVH (80°-90°)	14.5	0.5			G1/100
BL (0°-30°)	88.4	3.0	B0/110		
BM (30°-60°)	166.8	5.8	B0/220		
BH (60°-80°)	115.1	4.0	B1/500		G1/500
BVH (80°-90°)	0.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	337.0	337.0	337.0	337.0	337.0	337.0	337.0	337.0	337.0	337.0	337.0
2.5°	348.9	348.9	350.9	349.9	349.9	347.9	344.9	345.9	344.9	343.9	341.0
5°	342.9	343.9	344.9	346.9	350.9	352.9	352.9	353.9	353.9	352.9	348.9
7.5°	340.0	342.0	343.9	345.9	350.9	353.9	358.9	364.9	364.9	365.9	361.9
10°	350.9	352.9	355.9	358.9	363.9	368.9	372.9	379.8	379.8	381.8	380.8
12.5°	373.9	373.9	374.8	376.8	383.8	389.8	396.8	402.8	403.8	404.8	401.8
15°	401.8	401.8	402.8	402.8	406.8	415.7	428.7	434.7	433.7	432.7	426.7
17.5°	433.7	433.7	433.7	434.7	436.7	441.6	456.6	468.6	467.6	466.6	454.6
20°	463.6	465.6	467.6	468.6	470.6	474.5	490.5	504.5	507.4	503.5	482.5
22.5°	497.5	498.5	499.5	502.5	507.4	509.4	525.4	546.3	549.3	544.3	516.4
25°	531.4	533.4	536.4	540.3	545.3	555.3	566.3	594.2	597.2	591.2	553.3
27.5°	606.1	605.1	596.2	589.2	590.2	597.2	612.1	642.0	645.0	639.0	590.2
30°	733.7	721.8	704.8	673.9	644.0	647.0	667.9	696.9	701.8	693.9	631.1
32.5°	915.2	903.2	861.4	793.6	727.8	705.8	732.8	760.7	766.6	757.7	678.9
35°	1091.6	1088.7	1048.8	967.0	855.4	794.6	801.5	837.4	839.4	828.5	738.7
37.5°	1310.0	1299.0	1244.2	1152.5	1020.9	912.2	892.3	926.2	931.1	918.2	811.5
40°	1454.5	1450.5	1417.6	1352.8	1211.3	1074.7	1002.9	1035.8	1034.8	1015.9	895.3
42.5°	1538.3	1540.3	1538.3	1507.4	1426.6	1270.1	1149.5	1151.5	1154.5	1134.5	992.0
45°	1595.1	1595.1	1598.1	1623.0	1592.1	1503.4	1327.9	1283.1	1287.0	1256.1	1092.6
47.5°	1594.1	1600.1	1616.0	1673.9	1715.7	1720.7	1551.2	1436.6	1434.6	1387.7	1196.3
50°	1486.4	1482.4	1548.2	1677.8	1803.5	1900.2	1762.6	1599.1	1582.1	1524.3	1304.0
52.5°	1244.2	1257.1	1366.8	1557.2	1824.4	2021.8	1945.0	1776.5	1754.6	1659.9	1398.7
55°	1032.8	1046.8	1153.5	1339.9	1710.7	2064.7	2067.7	1965.0	1921.1	1777.5	1496.4
57.5°	775.6	802.5	960.1	1135.5	1461.5	1958.0	2111.5	2145.4	2097.6	1891.2	1576.2
60°	495.5	511.4	687.9	904.2	1184.4	1678.8	2102.5	2250.1	2224.2	1994.9	1643.0
62.5°	324.0	333.0	454.6	680.9	902.2	1265.1	1995.9	2292.0	2292.0	2064.7	1692.8
64°	244.3	246.2	333.0	553.3	752.7	986.0	1870.3	2279.0	2302.9	2106.5	1702.8
65°	193.4	194.4	260.2	459.6	675.9	808.5	1760.6	2251.1	2290.0	2122.5	1708.8
67.5°	135.6	138.6	168.5	265.2	484.5	466.6	1305.0	2119.5	2167.3	2127.5	1700.8
70°	117.6	121.6	141.6	173.5	345.9	271.2	693.9	1806.5	1863.3	1981.9	1583.1
72.5°	89.7	94.7	118.6	146.6	243.3	183.4	268.2	1283.1	1372.8	1532.3	1307.0
75°	64.8	66.8	87.7	119.6	170.5	141.6	115.6	662.0	752.7	904.2	812.5
77.5°	40.9	43.9	59.8	89.7	152.5	107.7	68.8	241.3	304.1	393.8	354.9
80°	23.9	24.9	35.9	61.8	102.7	79.8	43.9	85.7	103.7	146.6	94.7
82.5°	14.0	15.0	22.9	41.9	66.8	61.8	27.9	43.9	48.9	55.8	19.9
85°	5.0	5.0	16.0	24.9	35.9	30.9	16.0	22.9	24.9	30.9	6.0
87.5°	1.0	1.0	8.0	13.0	13.0	5.0	8.0	10.0	12.0	16.9	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°	337.0	337.0	337.0	337.0	337.0	337.0	337.0	337.0	337.0	337.0	337.0
2.5°	340.0	337.0	334.0	330.0	327.0	321.0	318.0	314.0	313.0	311.0	310.0
5°	347.9	342.9	336.0	326.0	320.0	311.0	305.1	299.1	298.1	296.1	295.1
7.5°	358.9	353.9	344.9	334.0	324.0	315.0	308.1	299.1	290.1	283.1	283.1
10°	376.8	370.9	358.9	348.9	337.0	318.0	285.1	255.2	236.3	224.3	220.3
12.5°	398.8	390.8	377.8	365.9	342.9	283.1	232.3	193.4	161.5	146.6	143.6
15°	421.7	414.7	401.8	383.8	315.0	236.3	169.5	109.7	78.8	64.8	66.8
17.5°	446.6	436.7	421.7	385.8	277.1	176.5	90.7	55.8	47.9	45.9	45.9
20°	472.5	459.6	444.6	363.9	228.3	101.7	51.8	41.9	38.9	35.9	36.9
22.5°	500.5	484.5	461.6	331.0	163.5	54.8	39.9	33.9	29.9	28.9	28.9
25°	530.4	507.4	478.5	293.1	94.7	41.9	32.9	26.9	23.9	22.9	21.9
27.5°	562.3	533.4	482.5	243.3	53.8	34.9	25.9	20.9	17.9	16.9	16.9
30°	591.2	559.3	473.5	180.4	40.9	28.9	20.9	16.0	14.0	14.0	14.0
32.5°	630.1	588.2	445.6	112.7	32.9	22.9	16.0	13.0	11.0	11.0	11.0
35°	680.9	631.1	417.7	59.8	26.9	18.9	13.0	10.0	9.0	9.0	9.0
37.5°	750.7	687.9	392.8	37.9	21.9	15.0	10.0	8.0	7.0	7.0	7.0
40°	822.5	755.7	357.9	28.9	17.9	12.0	8.0	6.0	5.0	5.0	6.0
42.5°	912.2	834.4	318.0	24.9	15.0	10.0	6.0	4.0	3.0	4.0	4.0
45°	1002.9	917.2	262.2	20.9	13.0	8.0	4.0	2.0	2.0	3.0	3.0
47.5°	1096.6	1004.9	203.4	17.9	11.0	6.0	3.0	1.0	1.0	2.0	2.0
50°	1193.3	1091.6	151.5	16.0	9.0	5.0	2.0	1.0	0.0	1.0	1.0
52.5°	1290.0	1175.4	117.6	14.0	8.0	4.0	1.0	0.0	0.0	0.0	1.0
55°	1379.8	1251.2	93.7	12.0	7.0	3.0	1.0	0.0	0.0	0.0	0.0
57.5°	1455.5	1307.0	74.8	11.0	6.0	2.0	1.0	0.0	0.0	0.0	0.0
60°	1527.3	1350.9	57.8	9.0	5.0	2.0	1.0	0.0	0.0	0.0	0.0
62.5°	1578.2	1367.8	46.9	8.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0
64°	1600.1	1369.8	40.9	7.0	4.0	2.0	1.0	0.0	0.0	0.0	0.0
65°	1613.0	1363.8	37.9	7.0	4.0	2.0	1.0	0.0	0.0	0.0	0.0
67.5°	1616.0	1330.9	28.9	6.0	3.0	1.0	1.0	0.0	0.0	0.0	0.0
70°	1528.3	1216.3	20.9	4.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
72.5°	1277.1	929.1	14.0	3.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
75°	797.6	401.8	8.0	3.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
77.5°	330.0	121.6	5.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
80°	75.8	28.9	2.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
82.5°	17.9	5.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
85°	4.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	1.0	1.0	1.0	1.0	1.0	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)