

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: P595007

Luminaire Tested: **IST-PA1A-830-U-T4W-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595007
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: IST-PA1A-830-U-T4W-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 80 CRI, 3000K, 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: 2354 lumens
Efficiency: N/A
Efficacy: 81.7 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

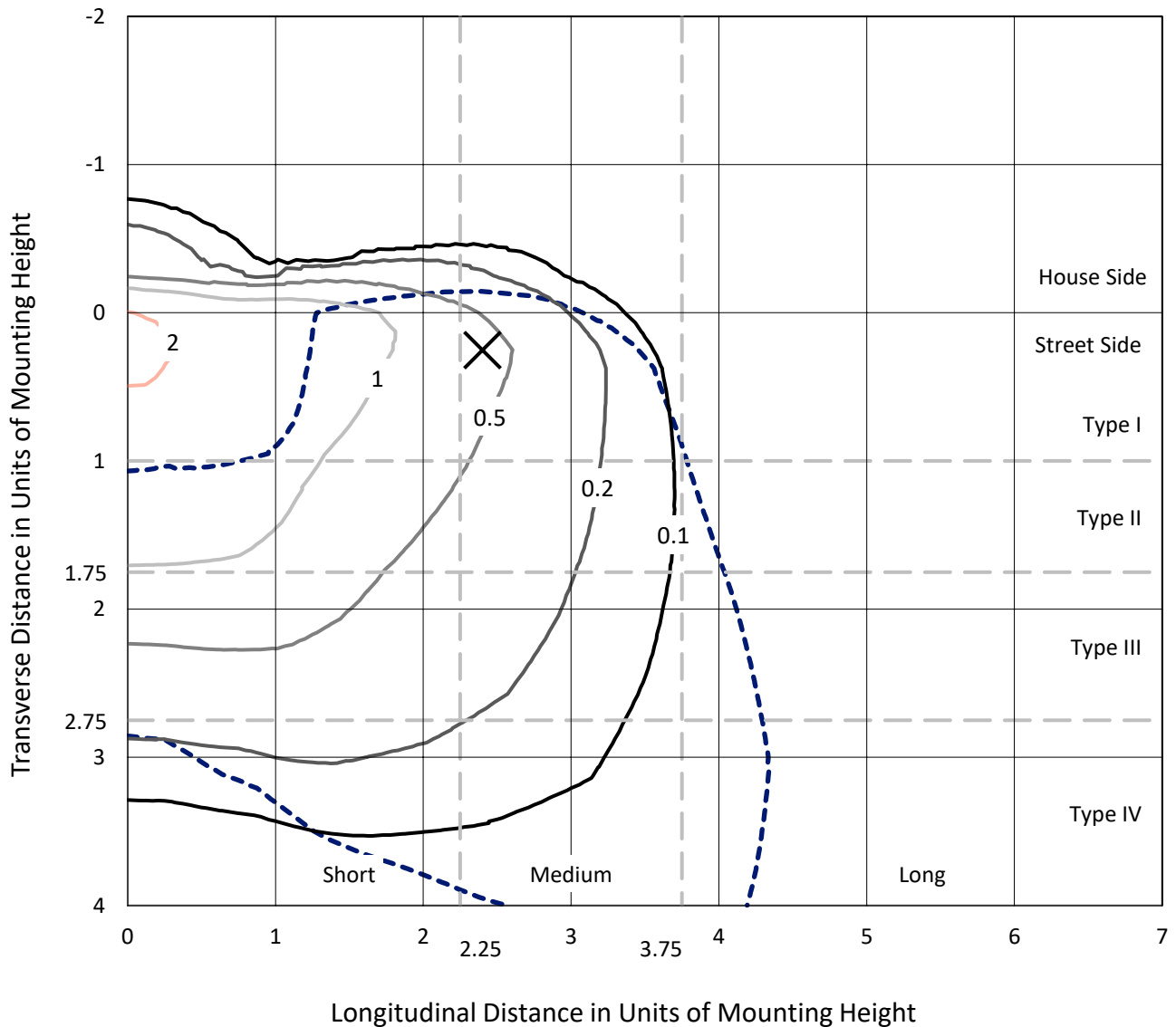
Input Watts (W): 28.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

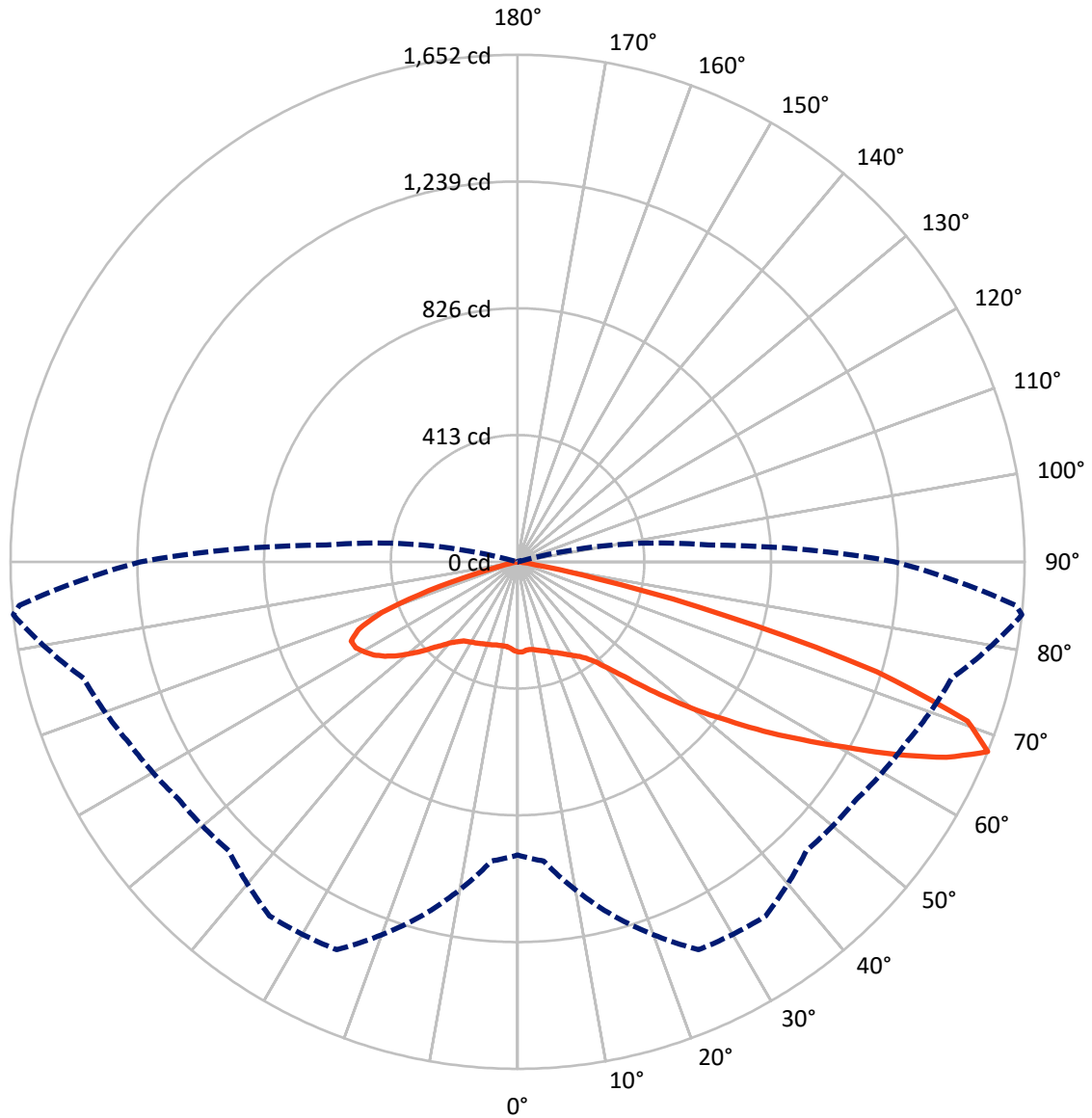
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 2.4 fc
 Type IV - Medium - N/A

REPORT NUMBER: P595007
CATALOG NUMBER: IST-PA1A-830-U-T4W-HSS

Luminous Intensity Polar Plot



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

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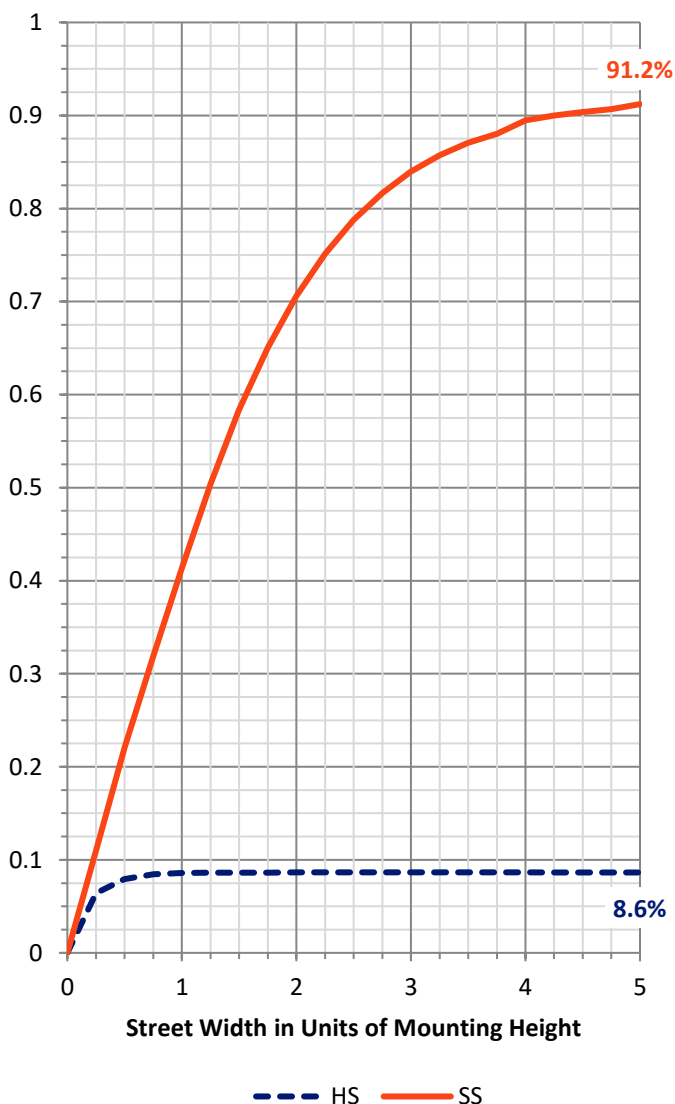
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	205.0	0.0	205.0
	% Fixture	8.7	0.0	8.7
Street Side	Lumens	2149.1	0.0	2149.1
	% Fixture	91.3	0.0	91.3
Total	Lumens	2354.0	0.0	2354.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.3	1.1
10°-20°	68.8	2.9
20°-30°	110.2	4.7
30°-40°	158.5	6.7
40°-50°	272.1	11.6
50°-60°	475.4	20.2
60°-70°	680.8	28.9
70°-80°	511.7	21.7
80°-90°	50.2	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°	2354.0	100.0
0°-180°	2354.0	100.0

Coefficient of Utilization

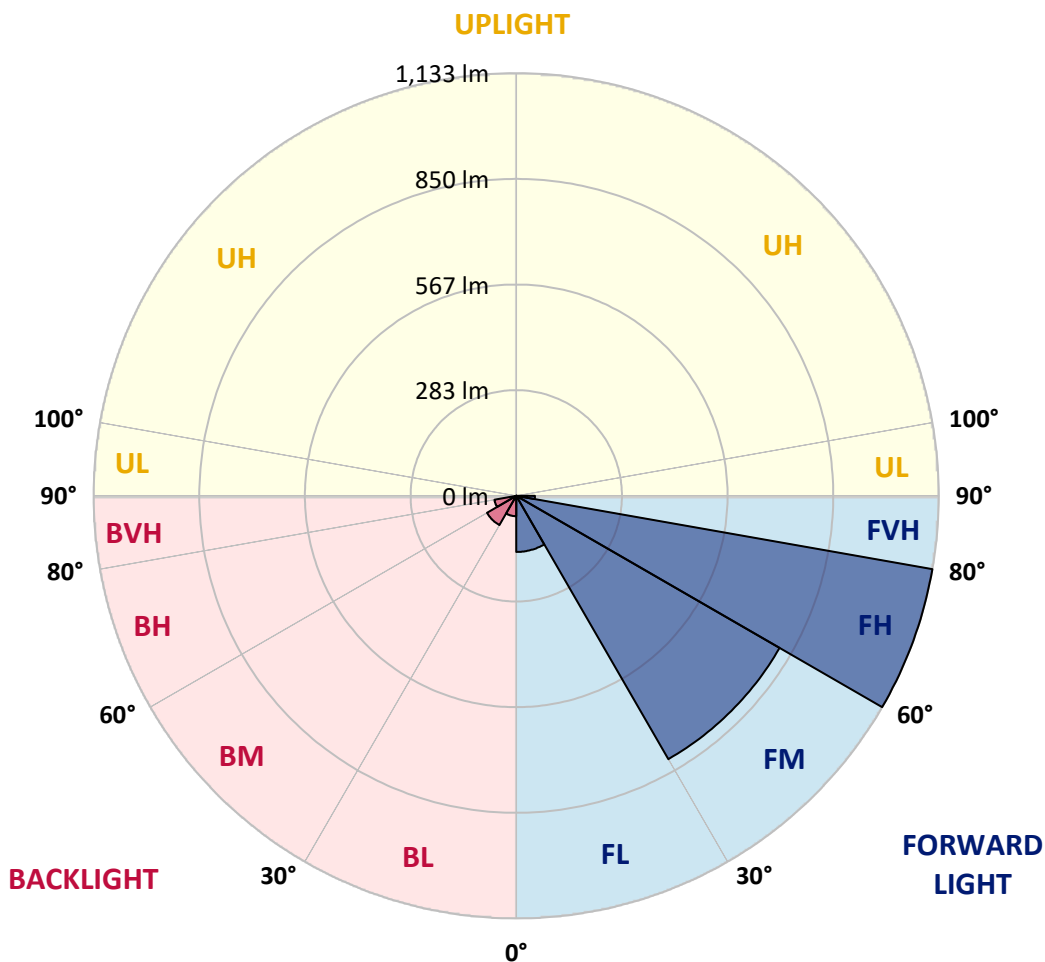


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	150.5	6.4			
FM (30°-60°)	815.4	34.6			
FH (60°-80°)	1133.1	48.1			G1/1800
FVH (80°-90°)	50.1	2.1			G1/100
BL (0°-30°)	54.7	2.3	B0/110		
BM (30°-60°)	90.6	3.9	B0/220		
BH (60°-80°)	59.4	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





REPORT NUMBER: P595007
 CATALOG NUMBER: IST-PA1A-830-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3
2.5°	310.0	311.6	312.4	308.4	308.4	305.2	300.4	298.8	296.5	294.1	293.3
5°	325.9	328.3	327.5	322.7	320.3	313.9	307.6	301.2	294.9	289.3	289.3
7.5°	344.1	344.9	342.6	334.6	329.8	321.1	311.6	304.4	296.5	288.5	286.9
10°	360.0	359.2	356.1	348.1	339.4	328.3	317.9	310.0	300.4	290.9	290.1
12.5°	371.2	372.0	368.0	356.9	348.1	335.4	325.1	317.1	306.0	295.7	293.3
15°	380.7	383.1	378.3	367.2	354.5	343.4	335.4	325.1	312.4	300.4	298.8
17.5°	389.5	390.2	386.3	373.6	361.6	352.1	343.4	333.8	321.1	306.0	304.4
20°	394.2	396.6	394.2	378.3	367.2	360.0	352.9	343.4	329.0	314.7	313.1
22.5°	397.4	399.8	399.0	381.5	372.0	366.4	360.0	351.3	337.8	321.1	319.5
25°	399.0	400.6	402.2	384.7	376.7	374.3	368.8	360.8	348.1	330.6	329.0
27.5°	401.4	403.0	404.6	388.7	385.5	383.1	381.5	375.1	360.0	341.8	339.4
30°	405.3	407.7	409.3	395.8	395.8	398.2	398.2	389.5	372.8	353.7	352.1
32.5°	410.1	410.9	414.1	403.0	406.9	412.5	410.9	402.2	384.7	367.2	364.8
35°	422.8	422.8	428.4	414.1	418.9	423.6	425.2	418.9	403.0	385.5	384.7
37.5°	453.8	453.8	458.6	435.5	434.8	439.5	445.1	445.1	429.2	413.3	411.7
40°	523.8	523.8	523.8	470.5	461.8	467.3	476.1	480.9	467.3	456.2	456.2
42.5°	640.6	641.4	629.5	534.9	497.5	507.1	516.6	527.0	519.8	511.8	510.3
45°	761.4	757.4	755.9	629.5	561.1	556.4	568.3	585.8	588.1	583.4	586.6
47.5°	844.1	848.0	850.4	747.1	650.1	617.6	628.7	653.3	667.6	666.8	671.6
50°	924.3	926.7	929.1	876.7	767.8	694.7	701.8	735.2	755.1	761.4	764.6
52.5°	994.3	987.9	998.3	991.1	892.6	782.9	782.9	821.0	856.8	859.2	858.4
55°	1015.0	1018.9	1049.9	1071.4	1020.5	891.0	875.1	915.6	953.8	973.6	973.6
57.5°	1061.1	1065.0	1102.4	1150.9	1113.5	997.5	973.6	1013.4	1054.7	1092.8	1098.4
60°	1121.5	1122.3	1162.0	1235.9	1184.2	1093.6	1073.8	1119.1	1160.4	1225.6	1243.9
62.5°	1154.0	1157.2	1212.1	1309.0	1273.3	1177.9	1173.1	1214.4	1267.7	1382.2	1398.8
65°	1104.0	1124.6	1243.9	1352.7	1345.6	1256.6	1273.3	1306.6	1367.8	1535.5	1551.4
67.5°	955.3	978.4	1191.4	1394.1	1408.4	1330.5	1348.0	1396.5	1464.0	1651.6	1629.3
70°	879.8	898.9	1064.2	1417.1	1460.8	1413.1	1421.1	1466.4	1486.3	1554.6	1530.8
72.5°	666.8	686.7	900.5	1338.4	1506.1	1499.8	1479.9	1442.6	1324.9	1223.2	1165.2
75°	294.9	317.9	599.3	1046.0	1394.1	1549.1	1444.1	1235.1	951.4	694.7	643.8
77.5°	130.3	143.9	232.1	581.0	1047.5	1340.8	1142.1	823.4	477.7	258.3	240.0
80°	42.1	43.7	73.1	203.5	535.7	887.8	699.4	395.8	147.0	60.4	56.4
82.5°	16.7	18.3	35.0	85.8	221.7	352.9	343.4	143.1	42.9	15.9	15.9
85°	4.8	5.6	17.5	45.3	78.7	99.3	121.6	47.7	23.0	4.8	4.8
87.5°	1.6	1.6	6.4	14.3	15.1	10.3	23.0	18.3	14.3	1.6	1.6
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°	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3
2.5°	291.7	290.1	286.1	282.9	281.4	279.0	275.8	274.2	274.2	273.4	271.0
5°	286.1	283.7	276.6	271.8	267.8	259.1	252.7	244.8	236.8	234.5	236.8
7.5°	283.7	279.0	269.4	259.9	243.2	220.2	205.1	188.4	182.8	175.7	176.4
10°	284.5	279.0	265.5	244.0	211.4	177.2	153.4	131.1	120.0	114.5	115.2
12.5°	286.9	280.6	261.5	222.5	175.7	134.3	97.8	80.3	77.1	77.1	77.1
15°	291.7	282.2	255.1	197.1	137.5	89.0	69.1	67.6	69.9	72.3	73.1
17.5°	296.5	286.9	245.6	170.9	100.1	66.8	64.4	64.4	66.8	69.1	69.9
20°	302.0	291.7	232.1	143.1	71.5	62.8	62.0	61.2	62.8	65.2	66.0
22.5°	310.8	296.5	216.2	110.5	62.0	60.4	58.8	58.0	58.8	61.2	62.0
25°	318.7	302.8	199.5	81.9	58.0	56.4	55.6	54.8	54.8	56.4	57.2
27.5°	328.3	310.0	181.2	61.2	53.3	52.5	51.7	50.9	50.1	51.7	52.5
30°	340.2	316.3	161.3	51.7	48.5	47.7	46.9	46.1	45.3	46.1	46.9
32.5°	355.3	325.1	138.3	46.9	44.5	42.1	41.3	41.3	40.5	40.5	41.3
35°	375.1	334.6	113.7	43.7	40.5	38.2	35.8	35.0	35.0	35.0	35.8
37.5°	404.6	352.1	89.8	40.5	37.4	33.4	31.0	28.6	28.6	28.6	28.6
40°	445.1	371.2	69.9	38.2	35.0	29.4	26.2	23.0	21.5	20.7	21.5
42.5°	507.9	399.8	54.0	35.0	33.4	26.2	21.5	17.5	14.3	13.5	14.3
45°	577.0	430.8	42.9	32.6	30.2	22.3	16.7	11.9	8.7	7.9	8.7
47.5°	664.5	469.7	36.6	29.4	26.2	18.3	11.9	6.4	4.0	4.8	4.8
50°	748.7	507.9	33.4	27.0	23.0	15.1	7.2	3.2	1.6	2.4	2.4
52.5°	841.7	548.4	31.0	23.8	19.9	11.1	4.0	0.8	0.0	0.8	0.8
55°	935.5	585.0	28.6	21.5	15.9	7.9	1.6	0.0	0.0	0.0	0.8
57.5°	1037.2	616.0	26.2	18.3	11.9	4.8	0.8	0.0	0.0	0.0	0.0
60°	1122.3	639.8	23.8	15.9	7.9	2.4	0.0	0.0	0.0	0.0	0.0
62.5°	1200.1	661.3	18.3	11.9	4.8	1.6	0.0	0.0	0.0	0.0	0.0
65°	1251.8	666.0	12.7	7.9	3.2	0.8	0.0	0.0	0.0	0.0	0.0
67.5°	1228.8	624.7	7.9	5.6	1.6	0.8	0.0	0.0	0.0	0.0	0.0
70°	1080.1	524.6	5.6	3.2	0.8	0.8	0.0	0.0	0.0	0.0	0.0
72.5°	755.9	338.6	4.8	2.4	0.8	0.8	0.0	0.0	0.0	0.0	0.0
75°	399.0	122.4	3.2	1.6	0.8	0.8	0.0	0.0	0.0	0.0	0.0
77.5°	141.5	27.0	1.6	0.8	0.0	0.8	0.0	0.0	0.0	0.0	0.0
80°	31.0	5.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	8.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.8	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)