

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: P595131

Luminaire Tested: **IST-PA1C-735-U-T3-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595131
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-PA1C-735-U-T3-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 3500K, 615mA 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: 4538 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

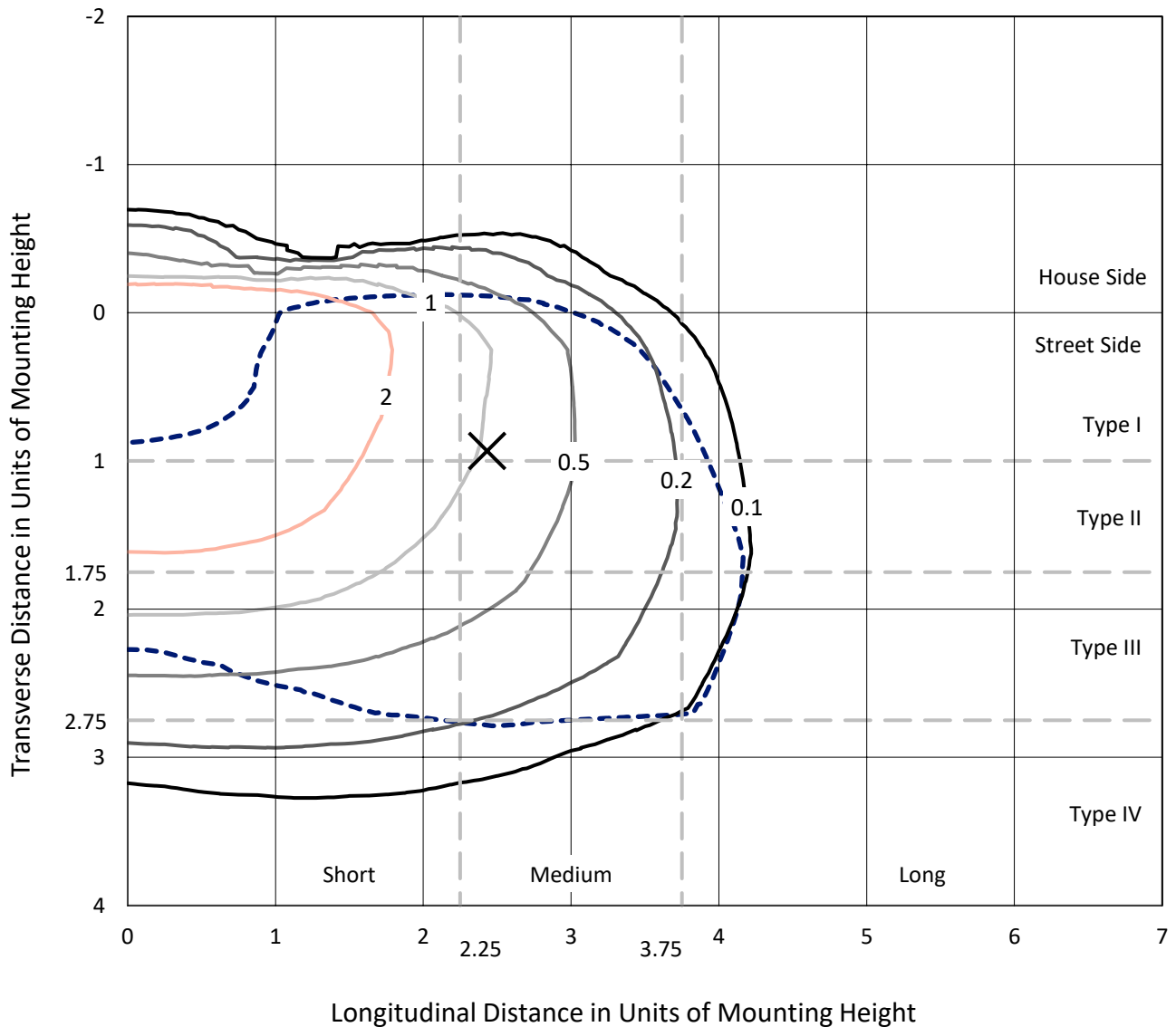
Input Watts (W): 48.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P595131
 CATALOG NUMBER: IST-PA1C-735-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

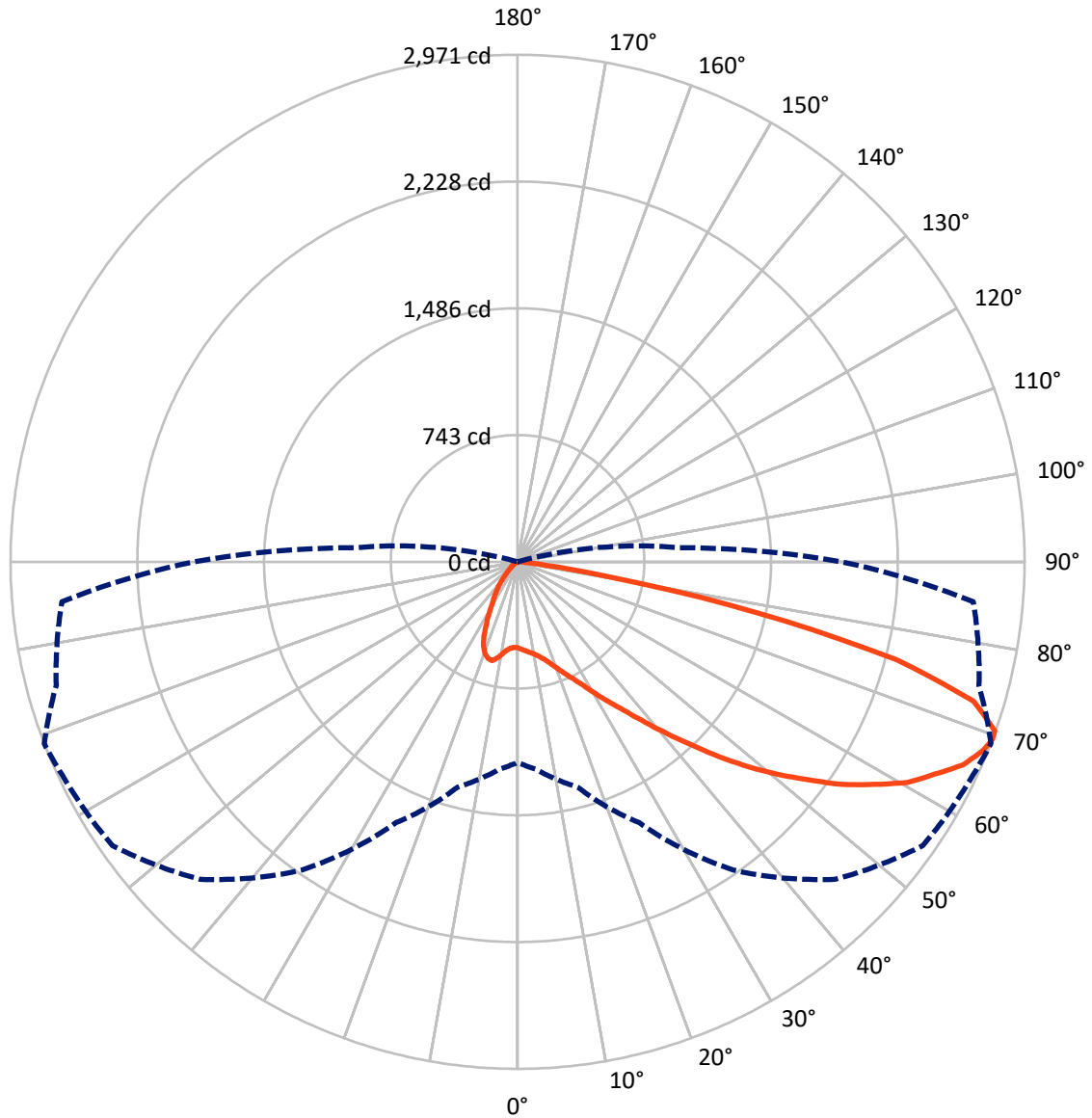
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4.4 fc
 Type III - Medium - N/A

REPORT NUMBER: P595131
CATALOG NUMBER: IST-PA1C-735-U-T3-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P595131
 CATALOG NUMBER: IST-PA1C-735-U-T3-HSS

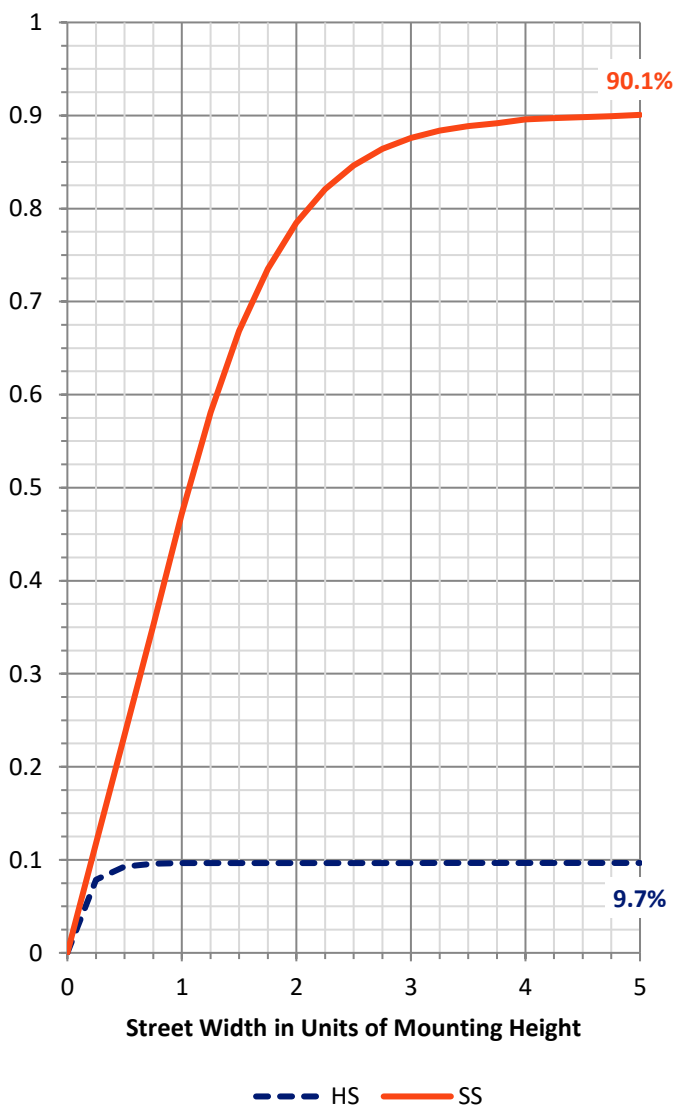
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	442.2	0.0	442.2
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	4095.8	0.0	4095.8
	% Fixture	90.3	0.0	90.3
Total	Lumens	4538.0	0.0	4538.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.1	1.1
10°-20°	127.3	2.8
20°-30°	212.0	4.7
30°-40°	381.7	8.4
40°-50°	692.1	15.3
50°-60°	1081.6	23.8
60°-70°	1251.4	27.6
70°-80°	699.8	15.4
80°-90°	43.7	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°	4538.0	100.0
0°-180°	4538.0	100.0

Coefficient of Utilization

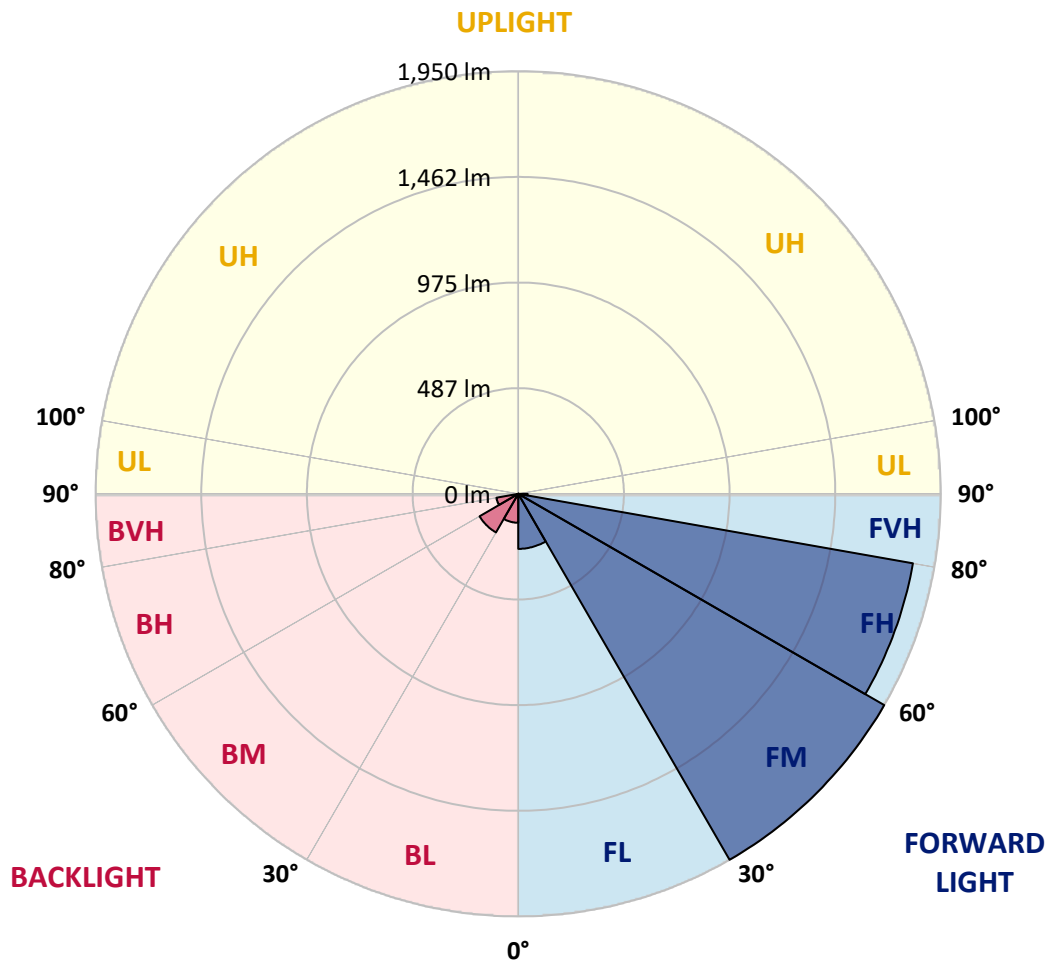


REPORT NUMBER: P595131
 CATALOG NUMBER: IST-PA1C-735-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	253.9	5.6			
FM (30°-60°)	1949.7	43.0			
FH (60°-80°)	1848.9	40.7			G2/5000
FVH (80°-90°)	43.4	1.0			G1/100
BL (0°-30°)	133.6	2.9	B1/500		
BM (30°-60°)	205.8	4.5	B0/220		
BH (60°-80°)	102.4	2.3	B0/110		G0/110
BVH (80°-90°)	0.3	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-G2
 Type III Medium





REPORT NUMBER: P595131
 CATALOG NUMBER: IST-PA1C-735-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	504.8	504.8	504.8	504.8	504.8	504.8	504.8	504.8	504.8	504.8	504.8
2.5°	522.9	522.9	522.9	519.9	521.4	519.9	518.4	513.8	515.4	513.8	509.3
5°	504.8	506.3	510.8	513.8	521.4	524.4	525.9	525.9	524.4	521.4	518.4
7.5°	470.0	470.0	474.6	483.6	498.7	515.4	529.0	536.5	538.0	538.0	533.5
10°	461.0	461.0	467.0	473.0	488.2	507.8	529.0	547.1	550.1	553.1	551.6
12.5°	456.4	457.9	464.0	474.6	494.2	512.3	535.0	560.7	569.8	577.3	578.8
15°	462.5	462.5	468.5	479.1	501.8	527.4	556.2	584.9	593.9	604.5	612.1
17.5°	471.5	474.6	477.6	488.2	509.3	541.1	578.8	616.6	627.2	640.8	646.8
20°	486.6	486.6	489.7	498.7	521.4	559.2	612.1	657.4	666.5	675.6	683.1
22.5°	504.8	506.3	506.3	513.8	539.5	580.3	640.8	696.7	711.8	716.4	719.4
25°	559.2	556.2	545.6	541.1	560.7	604.5	675.6	743.6	760.2	764.7	758.7
27.5°	672.5	660.4	631.7	601.5	598.5	642.3	722.4	802.5	820.6	822.2	801.0
30°	814.6	816.1	769.3	704.3	660.4	683.1	773.8	876.6	894.7	887.1	853.9
32.5°	989.9	982.4	947.6	853.9	766.2	746.6	829.7	953.6	974.8	962.7	918.9
35°	1139.5	1144.1	1101.7	1018.6	908.3	844.8	897.7	1039.8	1065.5	1044.3	989.9
37.5°	1265.0	1271.0	1245.3	1177.3	1079.1	979.3	986.9	1141.0	1175.8	1154.6	1086.6
40°	1404.0	1408.5	1398.0	1323.9	1236.3	1139.5	1106.3	1257.4	1304.3	1275.6	1204.5
42.5°	1556.7	1573.3	1555.1	1496.2	1405.5	1322.4	1272.5	1399.5	1446.3	1428.2	1333.0
45°	1765.2	1766.7	1745.6	1686.6	1592.9	1524.9	1464.5	1550.6	1611.1	1588.4	1476.6
47.5°	1919.4	1930.0	1917.9	1877.1	1801.5	1756.1	1673.0	1716.9	1780.3	1751.6	1624.7
50°	2037.3	2066.0	2055.4	2067.5	2029.7	2010.0	1883.1	1889.1	1951.1	1926.9	1775.8
52.5°	2102.2	2138.5	2141.5	2203.5	2235.2	2283.6	2087.1	2078.1	2117.4	2096.2	1930.0
55°	2093.2	2102.2	2177.8	2291.2	2415.1	2525.4	2286.6	2248.8	2303.2	2244.3	2093.2
57.5°	2005.5	2028.2	2161.2	2301.7	2520.9	2681.1	2458.9	2416.6	2461.9	2383.3	2260.9
60°	1880.1	1913.3	2084.1	2285.1	2582.8	2774.8	2626.7	2584.3	2625.2	2529.9	2451.4
62.5°	1766.7	1781.8	1939.0	2215.6	2546.6	2770.2	2756.6	2717.3	2741.5	2641.8	2614.6
65°	1605.0	1611.1	1766.7	2090.1	2466.5	2740.0	2827.7	2842.8	2868.5	2735.5	2730.9
67.5°	1355.7	1369.3	1523.4	1871.0	2333.5	2681.1	2883.6	2913.8	2944.0	2785.4	2752.1
69°	1175.8	1219.6	1367.7	1686.6	2205.0	2631.2	2898.7	2947.1	2971.2	2799.0	2681.1
70°	1029.2	1067.0	1237.8	1544.6	2091.7	2575.3	2909.3	2942.5	2966.7	2770.2	2564.7
72.5°	516.9	565.2	799.5	1127.4	1662.4	2319.9	2854.9	2818.6	2792.9	2548.1	2075.0
75°	199.5	207.1	343.1	642.3	1039.8	1703.3	2437.8	2369.7	2294.2	1933.0	1230.2
77.5°	110.3	108.8	149.6	284.1	442.8	832.7	1648.8	1540.0	1435.7	1038.3	498.7
80°	46.9	49.9	65.0	136.0	232.7	288.7	801.0	711.8	566.7	329.5	119.4
82.5°	28.7	30.2	45.3	83.1	161.7	110.3	259.9	222.2	163.2	89.2	28.7
85°	9.1	10.6	31.7	55.9	78.6	45.3	58.9	51.4	45.3	37.8	9.1
87.5°	1.5	1.5	12.1	30.2	21.2	7.6	6.0	10.6	16.6	18.1	3.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P595131
 CATALOG NUMBER: IST-PA1C-735-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	504.8	504.8	504.8	504.8	504.8	504.8	504.8	504.8	504.8	504.8	504.8
2.5°	507.8	504.8	501.8	500.2	500.2	497.2	495.7	494.2	494.2	492.7	492.7
5°	513.8	510.8	507.8	506.3	503.3	501.8	501.8	501.8	500.2	501.8	503.3
7.5°	529.0	524.4	522.9	521.4	521.4	516.9	509.3	489.7	470.0	464.0	457.9
10°	550.1	548.6	548.6	548.6	538.0	498.7	444.3	396.0	370.3	349.1	349.1
12.5°	580.3	580.3	578.8	574.3	519.9	424.7	340.0	267.5	225.2	201.0	204.0
15°	613.6	612.1	615.1	586.4	457.9	328.0	205.5	145.1	122.4	119.4	119.4
17.5°	648.4	651.4	648.4	554.7	376.3	202.5	122.4	110.3	107.3	107.3	107.3
20°	684.6	681.6	677.1	500.2	273.5	127.0	105.8	102.8	99.7	98.2	98.2
22.5°	720.9	717.9	687.6	430.7	170.8	104.3	99.7	93.7	89.2	87.7	87.7
25°	755.7	755.7	668.0	341.6	116.4	98.2	90.7	84.6	80.1	75.6	75.6
27.5°	799.5	802.5	636.3	238.8	98.2	90.7	81.6	72.5	66.5	63.5	63.5
30°	849.4	853.9	584.9	155.7	89.2	80.1	71.0	60.5	51.4	48.4	46.9
32.5°	908.3	912.8	525.9	102.8	80.1	69.5	58.9	45.3	36.3	34.8	33.2
35°	983.9	973.3	454.9	81.6	69.5	58.9	45.3	31.7	25.7	24.2	24.2
37.5°	1077.6	1054.9	373.3	71.0	58.9	46.9	33.2	21.2	16.6	16.6	15.1
40°	1184.9	1121.4	288.7	63.5	49.9	36.3	21.2	13.6	10.6	10.6	10.6
42.5°	1302.8	1177.3	205.5	55.9	40.8	25.7	13.6	7.6	6.0	6.0	6.0
45°	1438.8	1228.7	140.6	48.4	34.8	18.1	7.6	3.0	3.0	3.0	3.0
47.5°	1574.8	1261.9	93.7	42.3	25.7	10.6	4.5	1.5	1.5	1.5	1.5
50°	1712.3	1287.6	72.5	36.3	18.1	6.0	1.5	0.0	0.0	0.0	0.0
52.5°	1834.7	1305.8	58.9	30.2	12.1	4.5	1.5	0.0	0.0	0.0	0.0
55°	1940.5	1307.3	51.4	24.2	9.1	3.0	0.0	0.0	0.0	0.0	0.0
57.5°	2047.8	1295.2	43.8	18.1	6.0	1.5	0.0	0.0	0.0	0.0	0.0
60°	2112.8	1263.5	34.8	13.6	4.5	1.5	0.0	0.0	0.0	0.0	0.0
62.5°	2152.1	1210.6	27.2	9.1	3.0	1.5	0.0	0.0	0.0	0.0	0.0
65°	2129.4	1144.1	19.6	6.0	3.0	1.5	0.0	0.0	0.0	0.0	0.0
67.5°	2023.7	1041.3	13.6	4.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0
69°	1898.2	947.6	12.1	3.0	1.5	1.5	0.0	0.0	0.0	0.0	0.0
70°	1787.9	875.1	10.6	3.0	1.5	1.5	0.0	0.0	0.0	0.0	0.0
72.5°	1331.5	563.7	9.1	3.0	1.5	1.5	0.0	0.0	0.0	0.0	0.0
75°	748.1	188.9	6.0	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	281.1	48.4	3.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	62.0	12.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	13.6	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.5	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)