

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: LUMARK

Report Number: P381318

Luminaire Tested: **PRV-PA2A-740-U-T4W-HSS**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P381318
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-15)
Test Lab: INNOVATIONS CENTER
Issue Date: 1/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-PA2A-740-U-T4W-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 720mA LIGHT ENGINES 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: 11268 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G3

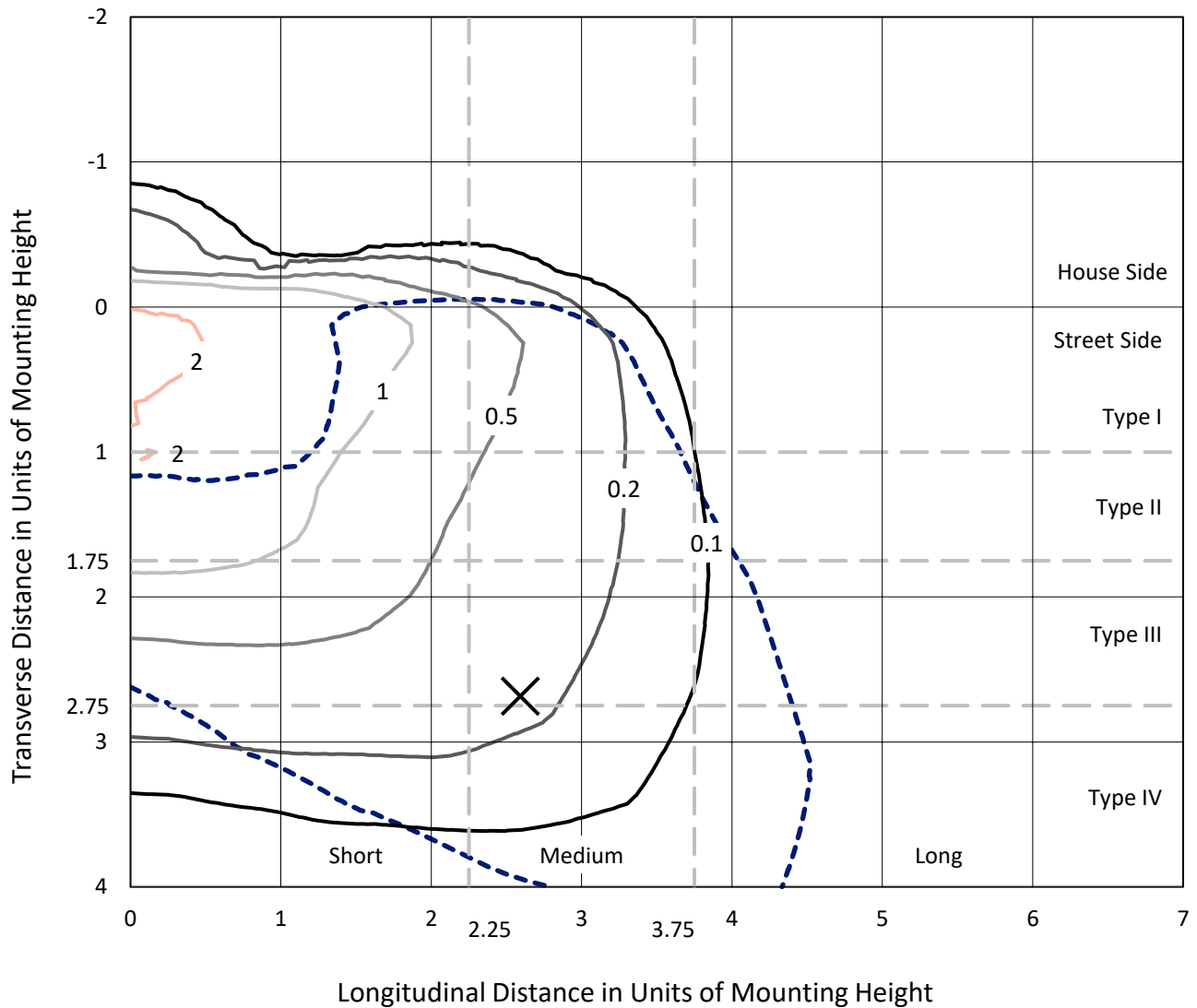
Input Watts (W): 112
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P381318
 CATALOG NUMBER: PRV-PA2A-740-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

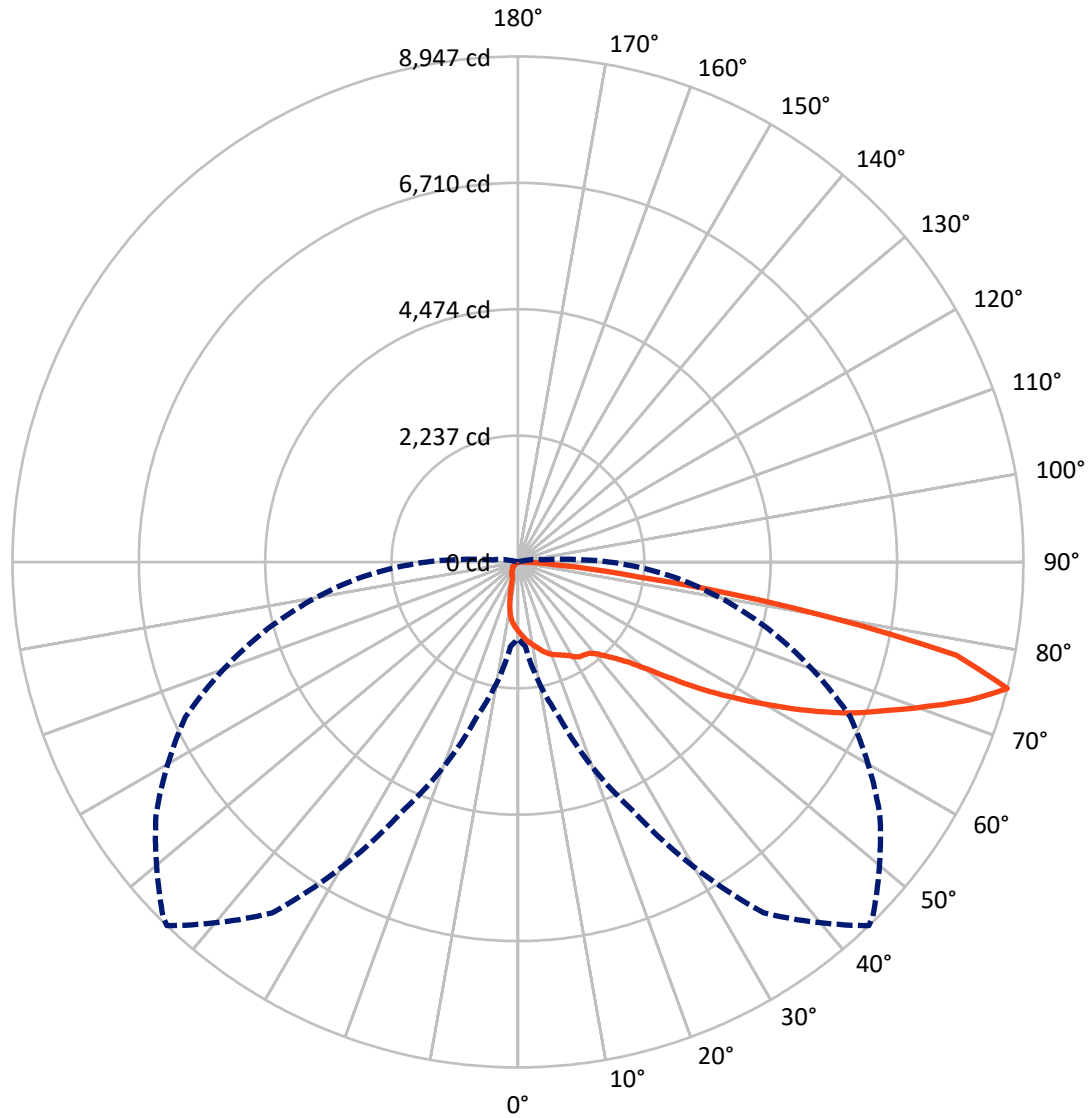
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type IV - Medium - N/A

REPORT NUMBER: P381318
CATALOG NUMBER: PRV-PA2A-740-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P381318
 CATALOG NUMBER: PRV-PA2A-740-U-T4W-HSS

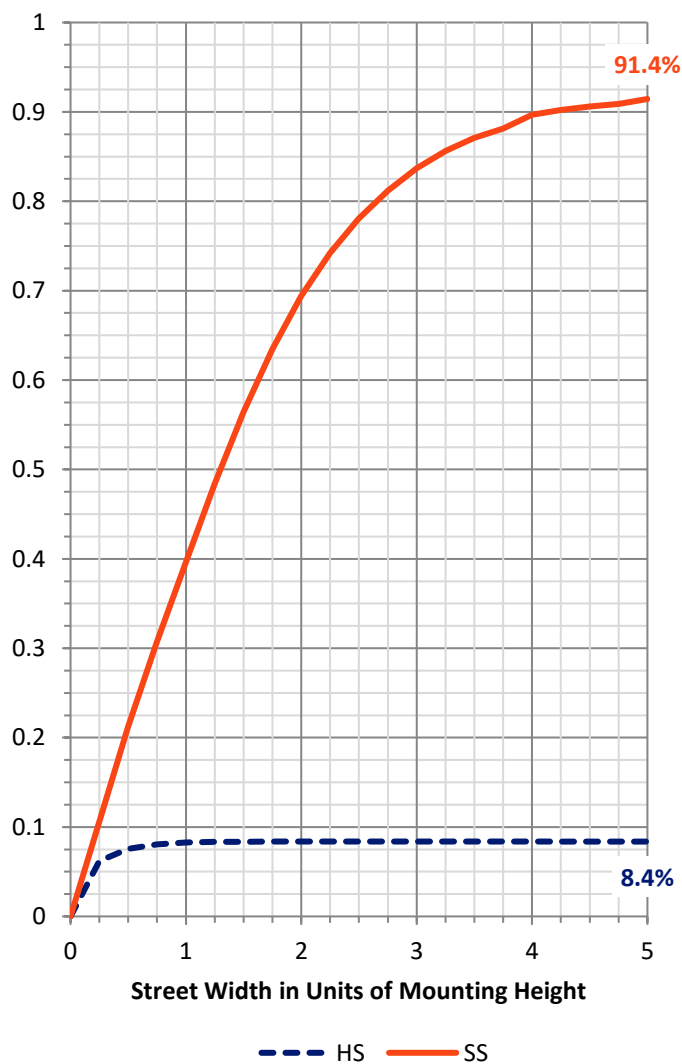
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	950.3	0.0	950.3
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	10317.7	0.0	10317.7
	% Fixture	91.6	0.0	91.6
Total	Lumens	11268.0	0.0	11268.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.7	1.0
10°-20°	324.1	2.9
20°-30°	534.9	4.7
30°-40°	776.3	6.9
40°-50°	1261.9	11.2
50°-60°	2224.7	19.7
60°-70°	3197.3	28.4
70°-80°	2560.3	22.7
80°-90°	272.8	2.4
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°	11268.0	100.0
0°-180°	11268.0	100.0

Coefficient of Utilization



REPORT NUMBER: P381318

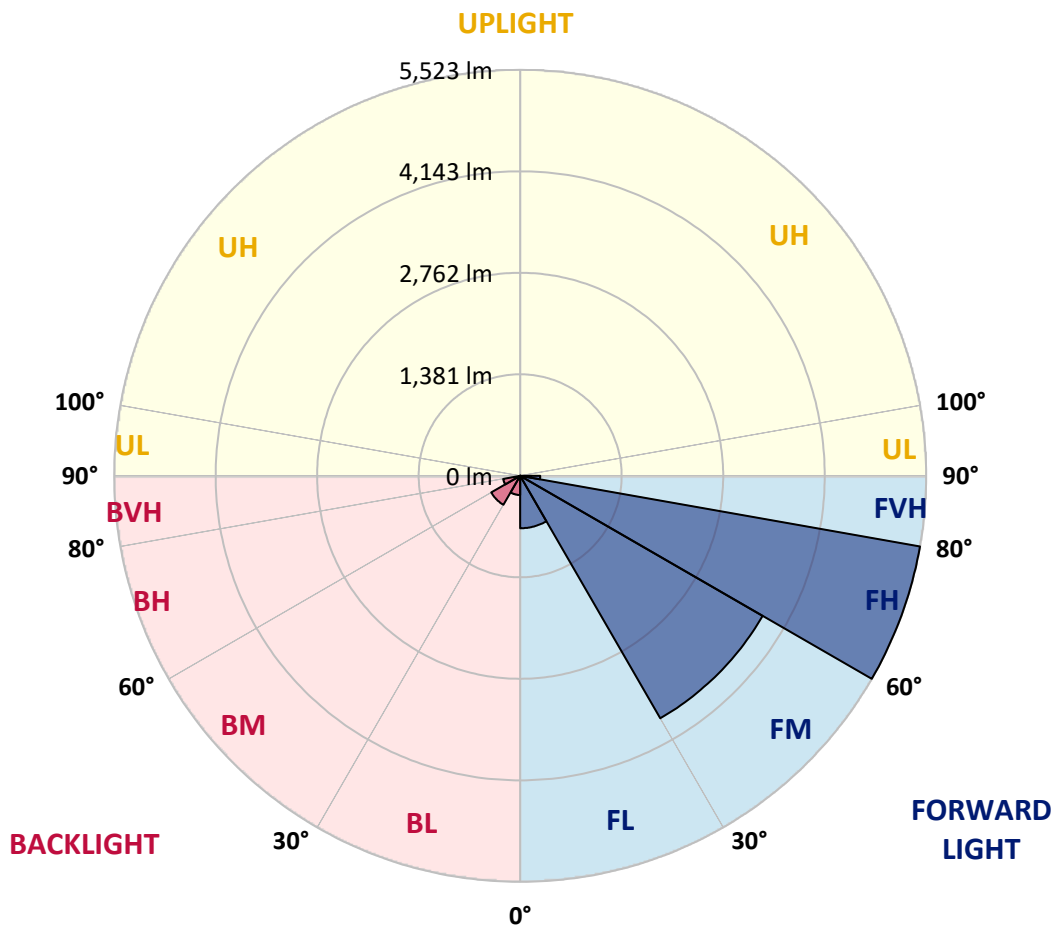
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	713.6	6.3			
FM (30°-60°)	3808.7	33.8			
FH (60°-80°)	5523.4	49.0			G3/7500
FVH (80°-90°)	272.1	2.4			G3/500
BL (0°-30°)	261.1	2.3	B1/500		
BM (30°-60°)	454.2	4.0	B1/1000		
BH (60°-80°)	234.3	2.1	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-G3

Type IV Medium





REPORT NUMBER: P381318

CATALOG NUMBER: PRV-PA2A-740-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5
2.5°	1336.7	1334.6	1328.3	1317.9	1307.6	1297.2	1295.1	1278.4	1259.7	1245.2	1232.7
5°	1455.1	1453.1	1442.7	1419.8	1396.9	1369.9	1367.8	1328.3	1293.0	1253.5	1220.2
7.5°	1577.8	1573.6	1554.9	1519.6	1480.1	1438.5	1434.4	1376.2	1324.2	1272.2	1224.4
10°	1673.4	1669.3	1642.2	1600.7	1546.6	1494.6	1488.4	1428.1	1376.2	1309.6	1245.2
12.5°	1767.0	1758.6	1723.3	1677.6	1611.1	1561.2	1554.9	1492.6	1430.2	1361.6	1282.6
15°	1854.3	1843.9	1810.6	1752.4	1681.7	1633.9	1629.8	1563.2	1498.8	1419.8	1332.5
17.5°	1914.6	1910.4	1870.9	1806.5	1737.9	1698.4	1694.2	1625.6	1561.2	1478.0	1384.5
20°	1945.7	1945.7	1908.3	1837.6	1775.3	1748.3	1742.0	1677.6	1615.2	1536.2	1438.5
22.5°	1952.0	1958.2	1929.1	1852.2	1806.5	1783.6	1779.4	1723.3	1663.0	1590.3	1498.8
25°	1964.4	1964.4	1949.9	1866.7	1833.5	1827.2	1825.2	1775.3	1721.2	1648.5	1559.1
27.5°	1979.0	1979.0	1968.6	1887.5	1875.1	1873.0	1870.9	1848.0	1804.4	1719.1	1629.8
30°	2016.4	2018.5	2010.2	1929.1	1920.8	1943.7	1947.8	1935.3	1881.3	1775.3	1702.5
32.5°	2110.0	2091.3	2068.4	1958.2	1972.8	2001.9	2003.9	1979.0	1920.8	1835.6	1789.8
35°	2344.9	2234.7	2130.7	1983.2	1989.4	2018.5	2022.7	2020.6	1985.2	1912.5	1889.6
37.5°	2563.1	2407.2	2259.6	2041.4	2020.6	2051.8	2060.1	2095.4	2068.4	2018.5	2024.7
40°	2689.9	2629.7	2525.7	2201.4	2082.9	2130.7	2139.1	2193.1	2182.7	2161.9	2201.4
42.5°	3080.7	3084.9	2972.7	2440.5	2197.3	2274.2	2284.6	2328.2	2342.8	2353.2	2448.8
45°	3533.9	3548.5	3521.5	2870.8	2413.5	2438.4	2453.0	2511.2	2565.2	2631.7	2806.4
47.5°	4078.6	4066.1	3966.3	3396.7	2789.7	2650.4	2660.8	2773.1	2866.6	3012.1	3261.6
50°	4560.8	4592.0	4402.9	3887.3	3319.8	2985.1	2974.7	3084.9	3253.3	3457.0	3770.9
52.5°	5047.3	5001.5	4745.9	4373.7	3947.6	3440.4	3409.2	3469.5	3706.5	3947.6	4269.8
55°	5176.2	5180.3	5093.0	4905.9	4471.5	3993.3	3941.4	3937.2	4232.4	4396.6	4793.7
57.5°	5429.8	5440.2	5461.0	5498.4	5292.6	4546.3	4492.2	4434.0	4720.9	4816.5	5319.6
60°	5687.5	5700.0	5826.8	6028.5	5891.3	5142.9	5084.7	4947.5	5107.6	5236.4	5872.5
62.5°	5654.3	5741.6	6109.5	6510.7	6494.1	5797.7	5725.0	5394.4	5496.3	5608.5	6379.8
65°	5105.5	5199.0	6026.4	6643.8	7099.0	6444.2	6325.7	5855.9	5862.2	5997.3	6868.3
67.5°	4614.9	4716.7	5506.7	6587.6	7498.2	7024.2	6901.5	6319.5	6221.8	6446.3	7130.2
70°	4332.2	4434.0	5093.0	6413.0	7610.4	7666.5	7560.5	6849.6	6650.0	6855.8	6837.1
72.5°	3390.5	3550.6	4565.0	6080.4	7731.0	8354.6	8271.5	7521.0	7013.8	6427.6	5205.3
75°	1351.2	1498.8	2850.0	4893.4	7579.2	8947.1	8882.6	7822.4	6492.0	4589.9	2665.0
77.5°	407.4	436.5	792.0	2419.7	5556.6	7932.6	7911.8	6577.3	4594.1	2130.7	727.6
80°	135.1	149.7	243.2	667.3	2536.1	4955.8	5049.4	4190.8	2087.1	488.5	147.6
82.5°	56.1	62.4	122.6	268.2	898.0	2134.9	2103.7	1877.1	727.6	303.5	54.0
85°	14.6	18.7	56.1	153.8	328.4	735.9	773.3	629.9	411.6	251.5	16.6
87.5°	0.0	0.0	27.0	62.4	147.6	222.4	232.8	191.2	232.8	189.2	8.3
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: P381318
 CATALOG NUMBER: PRV-PA2A-740-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5	1226.5
2.5°	1222.3	1211.9	1193.2	1180.7	1164.1	1160.0	1151.6	1141.2	1139.2	1128.8	1130.9
5°	1201.5	1184.9	1151.6	1128.8	1101.8	1093.4	1078.9	1068.5	1060.2	1045.6	1047.7
7.5°	1197.4	1172.4	1126.7	1083.0	1039.4	1008.2	964.6	929.2	900.1	868.9	875.2
10°	1211.9	1180.7	1116.3	1056.0	977.0	877.2	762.9	688.1	650.7	613.2	617.4
12.5°	1241.0	1203.6	1120.5	1029.0	868.9	698.5	540.5	438.6	411.6	395.0	397.0
15°	1284.7	1239.0	1132.9	977.0	723.4	505.1	359.6	316.0	326.4	332.6	332.6
17.5°	1330.4	1278.4	1143.3	883.5	559.2	353.4	293.1	289.0	303.5	318.1	318.1
20°	1386.5	1320.0	1145.4	765.0	403.3	286.9	276.5	276.5	286.9	303.5	303.5
22.5°	1440.6	1365.8	1126.7	629.9	307.7	266.1	266.1	266.1	272.3	289.0	291.0
25°	1505.0	1421.9	1087.2	486.4	264.0	253.6	253.6	255.7	259.8	274.4	276.5
27.5°	1573.6	1480.1	1020.7	355.5	241.1	239.1	241.1	243.2	245.3	259.8	264.0
30°	1652.6	1544.5	935.5	266.1	220.4	220.4	226.6	230.7	230.7	243.2	247.4
32.5°	1744.1	1629.8	833.6	220.4	199.6	197.5	207.9	214.1	214.1	224.5	228.7
35°	1858.4	1717.1	710.9	195.4	182.9	178.8	182.9	193.3	197.5	205.8	207.9
37.5°	2010.2	1821.0	580.0	180.9	170.5	162.1	162.1	164.2	172.5	180.9	182.9
40°	2203.5	1935.3	451.1	170.5	158.0	149.7	143.4	141.4	139.3	145.5	149.7
42.5°	2446.7	2064.2	336.8	160.1	147.6	135.1	126.8	118.5	108.1	106.0	108.1
45°	2758.5	2222.2	249.5	151.8	141.4	122.6	108.1	93.5	74.8	68.6	70.7
47.5°	3126.5	2386.4	195.4	143.4	137.2	108.1	89.4	64.4	45.7	41.6	43.7
50°	3517.3	2544.4	166.3	133.0	128.9	93.5	64.4	39.5	27.0	27.0	29.1
52.5°	3849.9	2633.8	151.8	124.7	116.4	76.9	41.6	22.9	16.6	16.6	18.7
55°	4172.1	2681.6	141.4	116.4	99.8	54.0	22.9	14.6	10.4	10.4	10.4
57.5°	4504.7	2702.4	128.9	106.0	79.0	33.3	12.5	8.3	6.2	6.2	6.2
60°	4799.9	2662.9	110.2	87.3	52.0	16.6	6.2	6.2	4.2	2.1	2.1
62.5°	5047.3	2588.1	76.9	62.4	31.2	8.3	4.2	2.1	0.0	0.0	0.0
65°	5199.0	2467.5	49.9	41.6	18.7	6.2	2.1	0.0	0.0	0.0	0.0
67.5°	5155.4	2240.9	31.2	27.0	8.3	4.2	2.1	0.0	0.0	0.0	0.0
70°	4652.3	1837.6	22.9	16.6	6.2	2.1	0.0	0.0	0.0	0.0	0.0
72.5°	3353.1	1243.1	16.6	10.4	4.2	0.0	0.0	0.0	0.0	0.0	0.0
75°	1613.1	442.8	10.4	8.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	395.0	97.7	6.2	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	87.3	18.7	4.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	29.1	8.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.4	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.2	2.1	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)